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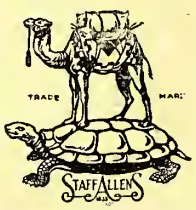
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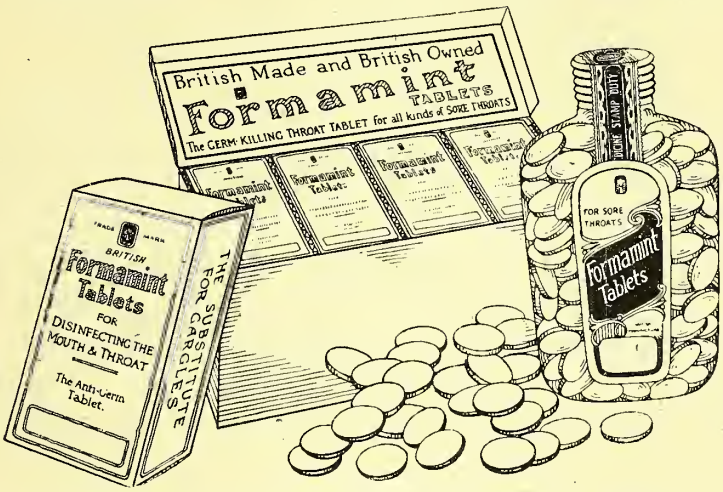
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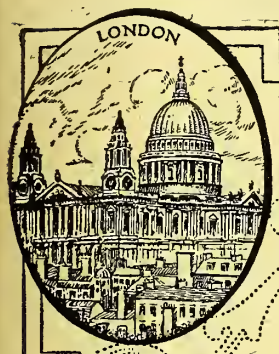
Flor. Oils. ***Pharmaceutical Oils.*** ***Chemicals.***

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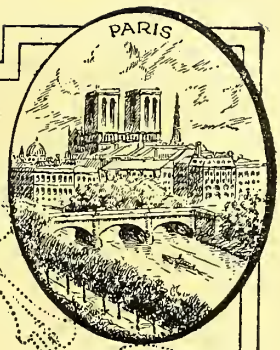
Apply for Price List to—

GERALD BROMAGE & CO., 9-10 Foster Lane, E.C.2

Telephone: CITY 4719

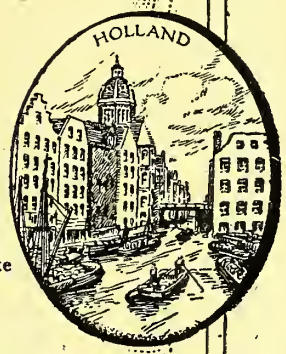






PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS.





R. W. GREEFF & Co. offer at lowest prices the following products:

(WHOLESALE QUANTITIES ONLY)

Acetanilid
Acetone
Acetyl Salicylic Acid
Acid Lactic
Amidol
Amidopyrin
Barbitone
Benzoic Acid
Benzamine Hydrochlor.
Benzamine Lactate
Benzo Naphthol
Beta Naphthol
Bromides
Calcium Lactate
Chloral Hydrate
Cinchonine and Salts
Cinchonidine and Salts
Cocaine
Creosote Carbonate
Eucalyptus Oil
Gallic Acid
Glycerophosphates
Guaiacol Carbonate
Hexamine
Homatropine & Salts
Hydroquinone
Ichthyol Substitute
Kelene
Lemon Oil
Lithia Carbonate
Lecithin
Menthol
Mercurials
Methylene Blue Medicinal
Methyl Salicylate
Metol
Paraldehyde
Peppermint Oil
Pepsine
Peptone
Phenacetin
Phenazone
Phenolphthalein
Pyrogallic Acid
Potash Sulpho-Guaiacolate
Quinidine and Salts
Quinine and Salts
Quinine Ethyl Carbonate
Quinoidine
Resorcin
Saccharin
Salicylic Acid
Salicylate of Soda
Salol
Soda Benzoate
Soda Hyposulphite
Soda Sulphite Anhydrous
Sugar of Milk
Tannic Acid Leviss
Tannin Albuminate
Tartaric Acid
Terpineol
Terpine Hydrate
Theobromine
Thymol Crysta's
Vanillin





R. W. Greeff & Co.

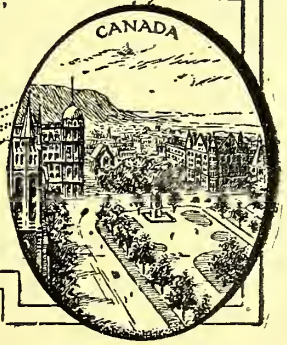
THAMES HOUSE, QUEEN STREET PLACE,
LONDON, E.C.4.

MANCHESTER BRANCH
Lloyds Bank Buildings,
King Street.

NEW YORK AGENTS
R. W. Greeff & Co., Inc.,
78 Front Street.

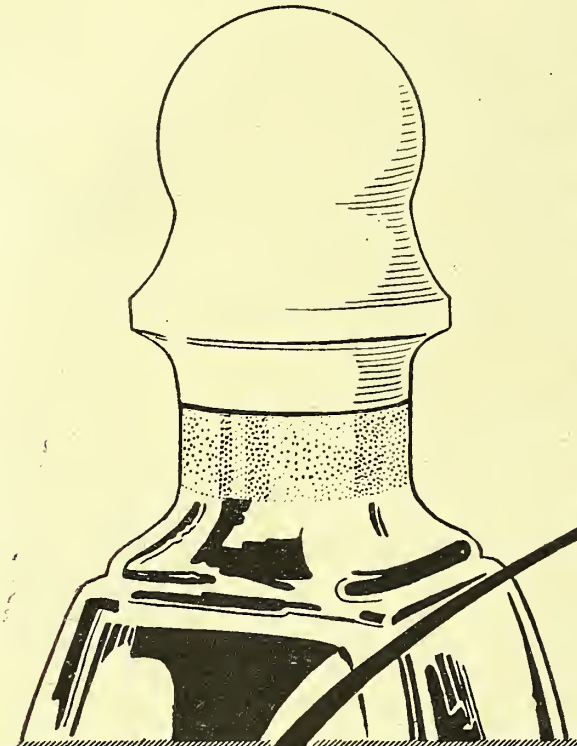








SOME OF THE MANY SHAPES OF STOPPERS FITTED BY "SEMREH" CAPS.



"IF THE CAP FITS"

"Semreh"

BOTTLE CAPPINGS cut out the "IF."

THE SIMPLE WAY OF CAPPING.

1. Take a "SEMREH" Cap, moist, out of the jar.
2. Slip it, mouth downwards, over the stopper, sprinkler, or cork.
3. Set the bottle aside for the cap to dry.

That's all. As the cap dries it fits itself naturally to the shape of stopper and neck of bottle, making a neat, clean, and hermetic finish.

No shaping or tying-down required; in fact, using them is so simple an inexperienced child can do it.

EVERY "SEMREH" CAP put over the stopper of a bottle fits exactly when it has dried—there is no "if" about it. A customer writes: "We find that without these Caps the powder, which is effervescent, goes damp, and we have several batches absolutely spoiling."

"SEMREH" Caps are stronger, of better appearance, and *much* more efficient than skin, pleated paper, &c. Inexpensive, too, being complete in themselves, and requiring no outlay on extras such as string, adhesive or elastic bands. They have no smell, and emit no fumes.

No wonder the *Pharmaceutical Journal* says: "Compare these advantages with the messy sealing-wax, the unpleasant-smelling gelatines, split skin, the easily soiled paper, to say nothing of the germ-holding properties of these substances, and it will be readily understood why they gain the approval of the Pharmacist."

Lastly, they are washable, a wipe over with a damp cloth restoring their brilliant appearance, unlike white leather cappings which lose their elegance and sales value when they get dirty in the shop window.

Made in White, Transparent or Opaque, and Colours. A fully descriptive, illustrated Booklet, with any special information desired, gladly sent on application.

THE VISCOSE DEVELOPMENT CO., LTD., BROMLEY, KENT, ENGLAND.

Telephone: Bromley 1415. Telegrams: "Viscoid Bromley."

IMMEDIATE DELIVERY

Maw's Page



November 13, 1920. No. 474.

Are you helping to make this Christmas the Chemists' Christmas?

You can do so by devoting your best efforts to pushing sales of "Parex" Manicure Methods. There is no more novel or suitable Christmas gift, nothing that so successfully combines all the evidences of thoughtful giving as a "Parex" Manicure Outfit. And "Parex" Manicure Methods can only be purchased from chemists—they are not supplied to others. Make this a record Christmas, and plant the seed of steady permanent business by specialising in "Parex" Manicure Methods as Christmas Gifts.

To help you to secure maximum sales for "Parex" Manicure Methods we are providing all purchasers with a complete range of advertising and window-dressing material free of all charges. If you have already purchased "Parex" Manicure Methods, and have not received this material, let us know without delay. If you are placing your first order for "Parex" Manicure Methods, ask for Free Christmas Advertising Matter.

"PAREX" MANICURE METHODS

are the chemist's own lines. The word "Parex" is the chemist's protection. Goods sold under this trade name are only supplied to chemists.

Telephone: "City 7" (Private Branch Exchange).

S. Maw, Son & Sons, Ltd., 7/12 Aldersgate St., London, E.C.1.

Telegrams: "Eleven Cent, London."

4/6 & 10/6 XMAS SERIES OF GAY PERFUMERY.



4/6 size. 36/- doz.

Cut corked and capped, with bright coloured labels. Each in box.

Packed by
"DE LUZY"
under their former title
J. B. VARREL,
Paris.

In 6 Assorted Odours.



10/6 size. 84/- doz.

Polished bottles, ground-glass stoppers. Each in box.

FITTED CASES containing Soap, Perfume and Powder. Small 8/6. Large 21/-. Less 33⅓%

WRITE FOR XMAS PERFUME LIST.

W. H. CALNAN & COMPANY
30-32 LUDGATE HILL, LONDON, E.C. 4.

RUVOIRE ET CIE

(A. M. EVANS).

High-class concentrated Perfumes in rod-stoppered hexagon bottles, with gold seals. Odours :—

Parma Violet. *Sweet Pea.*
White Rose. *White Lilac.*
Wallflower. *Lily of the Valley.*

FREE FROM SPIRIT.

Above combination mounted on artistic card, displaying One Dozen Bottles.

A very attractive and good selling line.

APPLY—

154 Church Lane, Harpurhey,
MANCHESTER.

WE MAKE IN ENGLAND

GLASS BOTTLES

ESTABLISHED 1880.

TRADE MARK

WE import from our special works in France and Belgium all kinds suitable for Chemists, Perfumers, Essence Manufacturers and all kindred trades. We are in a position to give prompt deliveries of reasonable quantities in a reasonable time. Prices on application.

STOCKS OF VARIOUS SHAPES & SIZES.

A. Ruch & Co., Ltd.
Geo. G. Forsyth,
28 MARTIN LANE, CANNON STREET,
LONDON, E.C. 4.
Telegrams—"Sennock, Cannon, London."
Telephone—Central 4799.

Morny

Paris

Morny Frères Ltd
Retail
201, Regent Street, W.1.
Post Orders & Correspondence
6, New Burlington Street, W.1.

Telephone 4431 & 4432 Regent.

1st November, 1920.

During November and December, 1919, Home Wholesale orders alone for the MORNY FINE PERFUMERY PRODUCTS were largely in excess of our capacity to supply promptly, and although strenuous efforts were made by our staff, a certain number of our friends were unavoidably disappointed.

This year additional plant and factory floor-space have enabled our output to be increased by nearly 40%, but this considerable extension has already proved quite inadequate.

We are anxious to give our trade connections the greatest possible satisfaction in the pressure preceding Xmas, 1920, and to this end we beg that stocks may be reviewed, and Xmas requirements notified to us as early as possible.

A few Morny Fine Perfumery Products for which a particularly ready sale will be found at Xmas are:—

	Minimum Retail Prices.
Parfum "CHAMINADE"	10/6 and 18/6 per bott.
,, "JUNE ROSES"	10/- ,, 18/- ,,
Essence "MYSTERIEUSE"	18/6 ,, 35/- ,,
Parfum "SERENADE"	10/9 ,, 21/- ,,
,, "NOCTURNE" (Novelty)	10/9 ,, 21/- ,,

SATIN-LINED COFFRETS, containing one large crystal flacon of Perfume, one tablet Toilet Soap, and one case of Complexion Powder fragrant with—

"CHAMINADE" or "MYSTERIEUSE"	70/- each.
"SERENADE" or "NOCTURNE"	63/- ,,
"JUNE ROSES" or "VIOLETTE-MORNY"	60/- ,,

Sels Aromatiques Morny pour le Bain, in crystal form (bottles), and in Compressed Tablets (boxes of 12), Complexion Powders, Bath Dusting Powders, Toilet and Bath Soaps de Luxe, in all the above and many other original perfumes.

6 New Burlington St., W.1. Morny Frères Ltd.

HOREHOUND COLTSFOOT and ANISEED COUGH CANDY

2/- per lb.

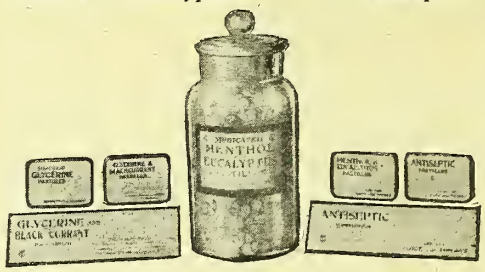


6 dozen Cartons supplied free per 28 lb.

PASTILLES

Prepared with Gum Acacia, soluble, and of excellent finish.

WE CAN NOW SUPPLY:
Glycerine. Glycerine and Black Currant.
Menthol Eucalyptus. Antiseptic.

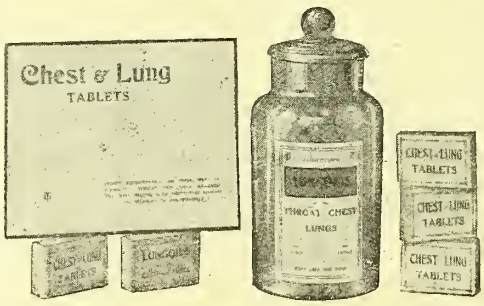


PACKED IN 2-oz. TINS with Showcards.

6/9 per doz. **78/-** per gross

THOS. GUEST & CO.
LIMITED.
CARRUTHERS STREET,
ANCOATS,
MANCHESTER.

LUNGOIDS. PINE.
CHEST & LUNG TABLETS



Showcards and Cartons free.

28 lb. - - - **2/4** per lb.
56 lb. - - - **2/3** „

BISMUTHATED MAGNESIA LOZENGES

3/6 per lb.



8½d. Tins **5/9** doz. **66/-** gross
1/3 „ **10/6** „ **120/-** „

In Constant Demand and Always Selling.

£3 and upwards, CARRIAGE PAID.

AYRTON'S WEEKLY PAGE 15

Economy in buying

Is not attained by buying the cheapest which is never the best, but the best which is *always* the cheapest !

May we quote you attractive prices for the following :—

Liquid Extracts

Cascaræ Sagrad.
Cascaræ Sagrad. Insipid.
Cocæ
Ergotæ
Gentianæ
Glycyrrhizæ
Ipecac.
Malti
Senegæ Liq. B.P.C.
Sennæ
Taraxaci Liq. B.P. '98.

Concentrated Liquors pro Syrups

Calcis Lactophosph.	1-3
Ferri Iodidi.	1-7
Ferri Phosph. Comp.	1-3
Hypophosph. Co.	1-3
Limonis.	1-7
Marrubii	1-7
Papaveris	1-4
Pruni Virg.	1-7
Rhei	1-7
Rhœados	1-7
Rosæ	1-7
Scillæ	1-7
Sennæ	1-3
Tolutan	1-7
Violæ	1-15

Ayrton's Cremors
are superior to B.P. Ointments and are in universal demand.

AYRTON, SAUNDERS & CO. LTD.
Manufacturing Chemists **LIVERPOOL**

You will make a profit of 6D on every sale! put in your stock

EACH TIN MAKES 2 Bottles of delicious Wine for . . . 1/6

YOU be the first in **your** district to show this "line"—it will prove a "big Seller." There is nothing on the market just like it. Each Tin makes 2 bottles of delicious wine by simply dissolving in water.

G. O. GINGER WINE

(CRYSTALS) and

G. O. ORANGE WINE

(CRYSTALS).

Packed in smart 1 dozen outers and containing 8 Ginger and 4 Orange.

We also supply you with attractive Window Bills in 3 colours and smart Showcards.



Retail (P.A.T.A.) 1/6. Wholesale 12/- per dozen.

Send us a P.O. or cheque for 24/- and we will post you on 2 dozen per return, or, if you prefer, include in your next order to your Wholesale House

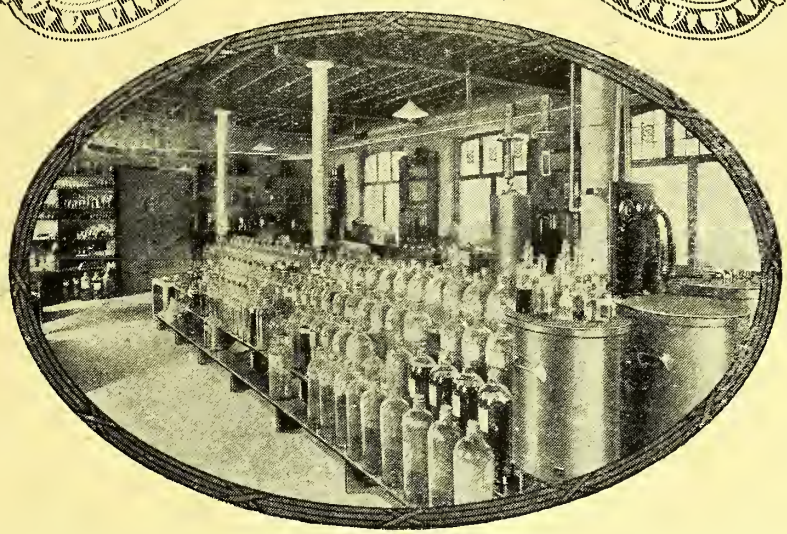
THE GREENWICH LEMONADE CO.

11 JOHN PENN STREET, LONDON, S.E. 13

Telephone: Greenwich 947.

(J. MILNER, M.P.S., Proprietor).

Telegraphic Address: "Cortlimn, Dept, London."



The above Photo (the sixth of he "Works View" series) shows a corner of one of the Perfumery Laboratories at Bardsley Vale.

PERFUMERY CONCENTRATES

THE claims of "Distol" Ottos have been so frequently emphasised on this page that Pharmacists may have come to regard "Distols" as the only perfumery product of the Garden Laboratories at Bardsley Vale.

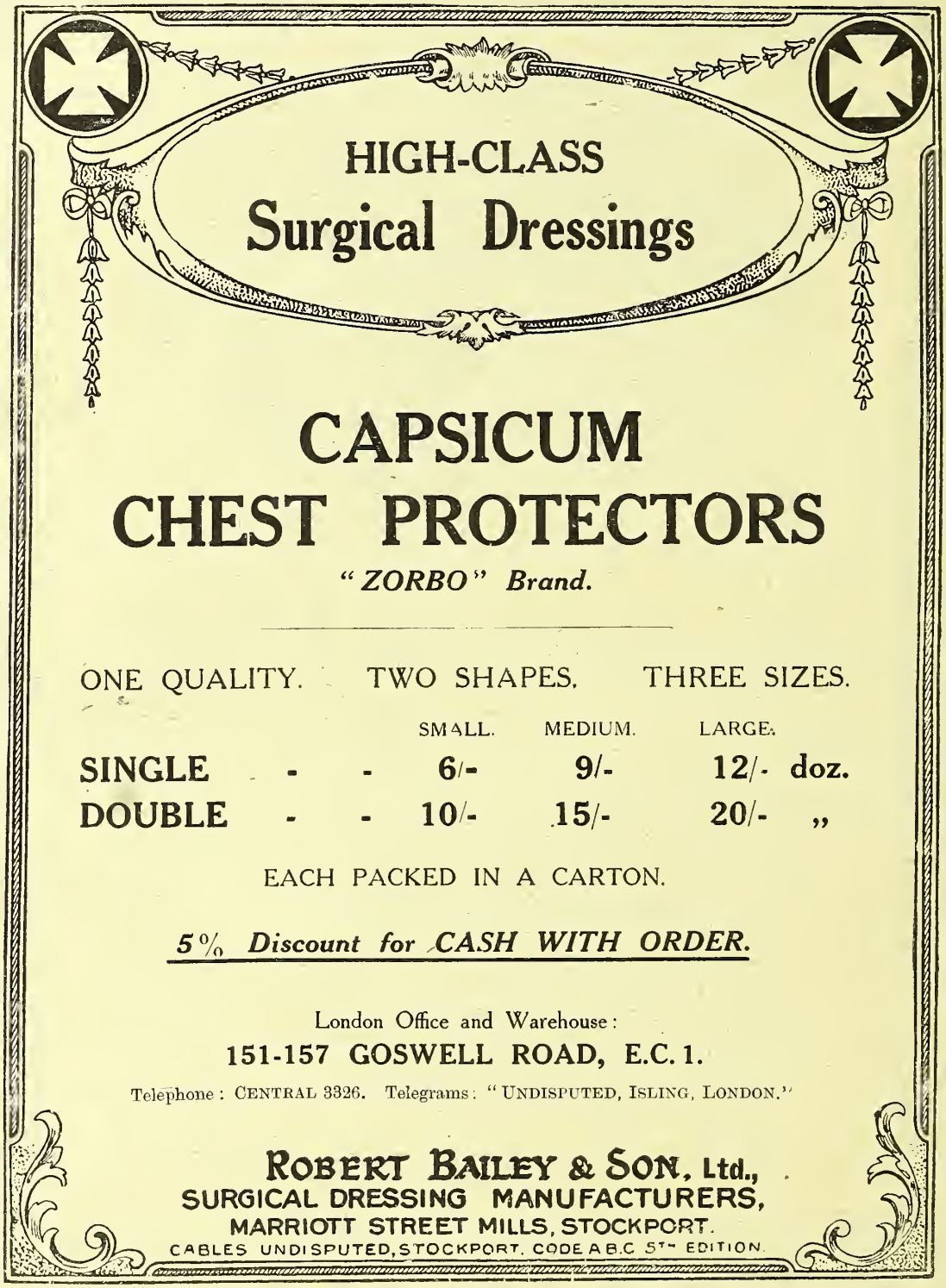
That this is not so is shown by the following extracts from our monthly list (posted regularly to any Pharmacist on request) :—

"DISTOL" OTTOS (34 Varieties)	**7/6** per oz.
SUBROSA (the perfect substitute for Otto of Rose) ...	**20/-** per oz.
SOLROSE (the Rose substitute that is soluble in water) ...	**20/-** per oz.
CONC. COLOGNE ESSENCE	**4/-** per oz.
OTTO COLOGNE F (a new and greatly improved product)	**6/-** per oz.
OL LAVAND CONC.	**6/-** per oz.
BROMELIA (Kerfoot)	**2/-** per oz.
METHYL CINNAMATE (Kerfoot)	**3/6** per oz.

Samples of any of the above free on request.

THOMAS KERFOOT & Co LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

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HIGH-CLASS
Surgical Dressings

CAPSICUM
CHEST PROTECTORS

"ZORBO" Brand.

ONE QUALITY. TWO SHAPES. THREE SIZES.

	SMALL.	MEDIUM.	LARGE.	
SINGLE - -	6/-	9/-	12/-	doz.
DOUBLE - -	10/-	15/-	20/-	„

EACH PACKED IN A CARTON.

5% Discount for CASH WITH ORDER.

London Office and Warehouse:
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Telephone: CENTRAL 3326. Telegrams: "UNDISPUTED, ISLING, LONDON."

ROBERT BAILEY & SON, Ltd.,
SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT.
CABLES UNDISPUTED, STOCKPORT. CODE A.B.C. 5TH EDITION.

C&G Co Ltd TRADE MARK

Invaluable for relieving Rheumatism, Gout and all Chest Affections.

"SANOID"

Thermal Wool

(Gauze Tissued.)

Possesses numerous advantages over many of the so-called Thermal Wools now in the market.

The absorbent wool itself and the gauze covering are of good quality. The process of charging is undoubtedly a certain and efficient one, and the capsicum used is of the highest standard.

These characteristics alone—apart from the advantage of the stitching which prevents rucking up or fraying of the edges—will undoubtedly commend itself to the discriminating Pharmacist.



In attractive cartons—

½ oz. per doz. 7/-
¾ oz. „ „ 9/-
1½ oz. „ „ 15/6

A bonus of 1 dozen is given with all orders of 1 gross whether of one size or assorted.

Cuxson, Gerrard & Co. Ltd.

OLDBURY, near Birmingham.

Export and Colonial Enquiries Invited.

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All-British Agency Co.,
10 Main Street, Port Elizabeth.

Distilled from Fresh Flowers only.

PREEMO

Concentrated Essences, Floral Ottos & Compounds

The superiority of the PREEMO Essences—their wonderful strength and lasting quality, is due to the fact that the base of all the PREEMO Essences is freshly gathered flowers without the addition of harmful Mineral or Animal Products. The flowers are picked at the right time, that is, when at the Flowering Stage, and they are distilled right away before their power and strength are dissipated.

Send for FREE SAMPLES.

The best way to prove the superiority of the PREEMO Products is to compare them with those you are at present using. For this purpose we will gladly send you Free Samples. Write to-day.

THE PREEMO CONCENTRÉ AND ESSENTIAL OIL CO.

63 HIGH HOLBORN, LONDON. W.C. 1. 32 RUE DE MONTENOTTE, PARIS.
Telephone—HOLBORN 3095. 97 WARREN STREET, NEW YORK. *Telephone—WAGRAM 27-35.*
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London-made Medicals, Perfumers, Essences.

EVERY CLASS OF BOTTLE required by the Chemist and Kindred Trades. Delivery guaranteed.

Customers' own designs our speciality.

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WORKS—BERMONDSEY and KENNINGTON.

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Representing :
The Millbay Soap and New Patent Candle Co., Ltd.
Jewsbury & Brown (Oriental Tooth Paste, Cordials, etc.)
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Joly, Paris (Parfumerie et Savons de Toilette).
T. Noirot & Cie, Nancy (Extraits Végétaux).
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Telegrams and Cables : "Philkiway, Westcent, London."
Telephone : Gerrard 1774. Code : A B C, 5th Edition.
Indents Executed. *Enquiries Solicited.*

ROURE BERTRAND FILS, GRASSE. *Established 1820.*

LAVENDER (French), SPIKE LAVENDER (French and Spanish)
NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American), VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.
ORRIS CONCRETE and LIQUID.
ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.
We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France

Makers of SYNTHETIC PERFUMES

and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM :
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Wholesale Houses only supplied.

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ESSENTIAL OILS

LONABARC TRADING COMPANY, LIMITED

5 FINSBURY SQUARE, LONDON, E.C.2.

AMERICAN
ESSENTIAL OILS

"MOHAWK" BRAND
OIL PEPPERMINT (Natural)

OIL CEDARWOOD
OIL CEDARLEAF
OIL HEMLOCK
OIL BIRCH

Heliotropine Crystals C.P.
Vanillin C.P.
Coumarin C.P.
Oil Wormseed, American.
Oil Wintergreen Leaf U.S.P.

MAGNUS, MABEE & REYNARD, Inc.
Essential Oils, Chemicals and Drugs,
NEW YORK - - U.S.A.
Cables—"MAGLAUR."

"ARETHUSA"
Brand
ESSENTIAL OILS

LEMON, ORANGE (Sweet & Bitter)
BERGAMOT :: MANDARIN

Guaranteed absolutely pure

The Brand that covers only Finest Quality Oils.

Manufactured by the old-established house of FRATELLI JUNG (Est. 1867) Palermo, Messina, Catania.

ASK YOUR USUAL SUPPLIERS
to deliver you **"Arethusa"** Essential Oils, or apply to the London Agents :

Gerald McDonald & Co.,
9 BOTOLPH LANE - E.C.3.

Telegrams : "Spicebush, Bilgate, London."
Telephone : Avenue 206 (3 lines, 7 extensions).

Desrue–Larene

Toilet Requisites

are stocked by most Chemists in preference to any other, as they show a quick sale and larger profits. If you have not yet tried them, do so, you will not regret it.

Try a Sample Order



DESRUE–LARENE
PARIS :: :: ::

	Doz.
No. 1. CRAYONS JAVANAIS, 1 doz. on card (polishing sticks for the nails)	3/6
No. 2. CRAYONS JAVANAIS, 1 doz. in box	3/-
CRAYONS NEPHTYS (evebrow pencils) (Black, Brown, Chatain, Blue) :—	
No. 3. Large Size	8/-
No. 4. Medium Size	6/-
No. 5. Small Size	4/-
No. 6. RAISIN SIRIUS À LA VIOLETTE, lip salves, metal cases, 3 colours	10/6
No. 7. COMPACT POWDERS (Pink, Ocre, Naturelle, Violet) ...	9/6
No. 8. POUDRE DES ROSES COMPACT (Light & Dark Reds)	9/6
No. 9. KERATOL (enamel for the nails) (enamel and dissolvant...	22/6
No. 10. KERATOL (enamel only)	18/-
No. 12. VARENOL (enamel for the nails) (enamel and dissolvant)	14/-
No. 13. VARENOL (enamel only)	9/-
No. 14. DJEM-KIR, large size (liquid red for the lips)	23/6
No. 15. DJEM-KIR, small size (liquid red for the lips)	16/-
No. 16. POMADE ROSAT (Pink and White)	3/6
No. 18. RAISIN NEPHTYS, lip salves. (Red and Scarlet) ...	3/6

Sole Agents– J. NASSAN & CO.

129 Wool Exchange, Basinghall Street, LONDON, E.C. 2.

Telephone : Central 8799.

XMAS IS NOW NEAR

AND YOU SHOULD BE WELL STOCKED WITH

Cook's Gift Caskets

OF RICH BOUQUETS AND LUXURIOUS SOAPS
EXQUISITELY PACKED FOR PRESENTATION.



"RIVERA" ELITE TOILET SOAP AND PERFUME.



VIOLET CREAM SOAP AND PERFUMES.



"THRONE" TOILET SOAP AND PERFUME.



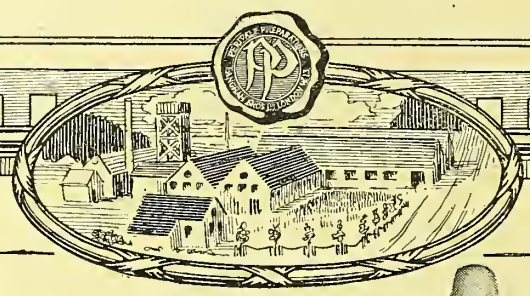
"RIVERA" CASKET.



"THRONE" CASKET.

Please Order at Once. *Illustrated Price List on Application.*

EDWARD COOK & CO., Ltd., Bow, London, E. 3



"Perivale" *Page ...*

PERIVALE
HAIR CREAM



Another "Perivale" Preparation

APPEARANCE is everything, hence the large and ever-increasing demand for a really good hair cream, which will impart a lustre to the hair and maintain it in any desired position.

Perivale Hair Cream not only does this, but is also non-greasy and possesses certain tonic properties which make it the ideal dressing for the hair, leaving a refreshing and cooling effect.

Appearance in get-up is of equal importance **to you**, if you want to attract customers by your window and counter displays. There is not a more pleasing or attractive article of a similar nature on the market than **Perivale Hair Cream** which will add prestige to your goodwill.

Good quality—good packing—good profits and quick sales—that's all you need.

Perivale Hair Cream retails at **2/3** per bottle and costs you **15/-** per dozen, thus showing you a **profit of 44%** on your **turnover**

SPECIAL ADVERTISING BONUS PARCELS
£5 PARCEL "PERIVALE" PREPARATIONS

Doz.		Retailing at	Cost	Cost	Retailing	Profit
3	"Crême de Menthe" Tooth Paste ...	1/6 ...	11/6 doz. ...	£1/14/6 ...	£2/14/- ...	19/6
½	"Perivale" Mouth Wash 8 oz. ...	3/6 ...	24/- „ ...	4/- ...	7/- ...	3/-
½	„ Mouth Wash 4 oz. ...	2/6 ...	18/- „ ...	3/- ...	5/- ...	2/-
½	„ Liquid Shampoo ...	2/6 ...	18/- „ ...	3/- ...	5/- ...	2/-
3	„ Hair Cream	2/3 ...	15/- „ ...	11/3 ...	18/- ...	6/9
1½	„ Vanishing Cream ...	2/6 ...	18/9 „ ...	6/3 ...	10/- ...	3/9
1½	„ Liq. Brill. Assorted 4 oz. ...	2/6 ...	18/9 „ ...	6/3 ...	10/- ...	3/9
1	„ Liq. Brill. Assorted 2 oz. ...	1/6 ...	10/9 „ ...	10/9 ...	18/- ...	7/3
½	„ Brill. Spirit 4 oz.	3/- ...	21/9 „ ...	7/3 ...	12/- ...	4/9
½	„ Brill. Spirit 2 oz.	1/9 ...	12/6 „ ...	6/3 ...	12/6 ...	4/3
¾	„ Solid Brilliantine ...	1/3 ...	10/- „ ...	7/6 ...	11/3 ...	3/9

BONUS SUPPLIED WITH ABOVE PARCEL.

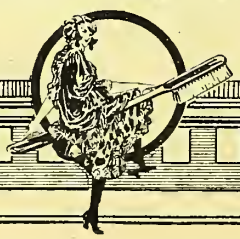
1	"Crême de Menthe" Tooth Paste		18/- ...	18/-
½	"Perivale" Mouth Wash 8 oz.		3/6 ...	3/6
½	„ Mouth Wash 4 oz.		2/6 ...	2/6
⅓	„ Hair Cream		9/- ...	9/-
		£5/0/0	£9/13/9	£4/13/9

£10 SPECIAL BONUS PARCEL.—£10 Parcel Assorted "Perivale" Preparations with Bonus, shows even a better profit, realising £19 17s. 9d., thus showing you a profit of £9 17s. 9d.

£100 PRIZE WINDOW-DRESSING COMPETITION.—In connection with the forthcoming Advertising Exhibition, when £1,000 will be offered in Prizes, we are offering an additional £100 for Displays containing either CREME DE MENTHE TOOTH PASTE or "PERIVALE" PREPARATIONS. Write us for particulars and entry forms.

LANGHAM BROTHERS, LIMITED,

MANUFACTURERS OF **PERIVALE,** *FINE CHEMICALS,* **WEST EALING, W.13.**



ARNAUD ET CIE'S

HIGH CLASS TOILET PREPARATIONS



ADIANTINE (Reg'd)
A Herbal Hair Grower
9/6 per doz



BORALIA (Reg'd)
Dental Wash
15/- per doz



CRÊME de VENICE
A Liquid Vanishing Cream
11/6 per doz



DUPORTÉS BORACIC
TALCUM POWDER
5/- per doz



BORALIA (Reg'd)
Coconut Oil Shampoo
12/6 per doz



POUDRE de RIZ CARESSA (Rachelle, White & Pink)
A delicately perfumed & high class Face Powder
10/6 & 7/- per doz



ARNAUD'S
CREAM of LILIES
a liquid Face Powder
7/- per doz



BRILLIANTINE de PARIS
Concrete
8/6 per doz



ARNAUD'S
BLOOM of ROSES
4/- per doz

POTTER & CLARKE LTD WHOLESALE DRUGGISTS

60-64 ARTILLERY LANE · LONDON · E · C

& AT LUNA STREET · GT ANCOATS · MANCHESTER



EVAN WILLIAM'S ORIGINAL Henna Shampoo

Your Customers will insist on the

Evan Williams'

HENNA

SHAMPOO

having been taught by experience. Are you ready to meet their demands? Stock moves freely at a handsome profit.

Full particulars are included in The SHAMPOO SALESMAN, which is sent free on request.

The **EVAN WILLIAMS CO., LTD.,**
18 & 18a, Ogle St., Foley St., London, W.1.

"Jackel's Cream"

(without Grease)
for THE HAIR

Sold everywhere

Established 1883.



"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export Houses on application.

Jackel et Cie (of Paris) Ltd.
Sauchiehall Street
GLASGOW

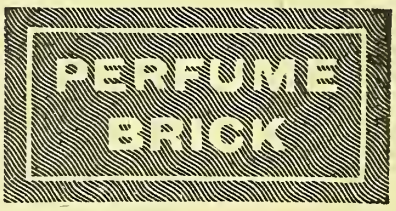
CRYSTALLISED CREAM
1/9 2/6

Trade Mark attached to each bottle.

SALES ALWAYS INCREASING.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.

On the P.A.T.A. *Retail Price* ***6d.***

WANDA TOILET PUMMICE.
WANDA NAIL POLISH.
WANDA ONE-DROP PERFUME.

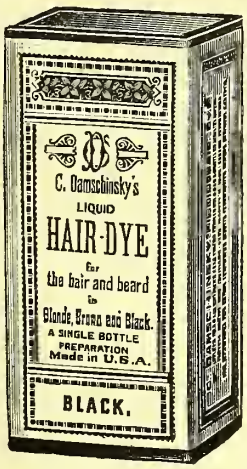
Of the Makers:

WILLIS, LOW & DRUIFF, LTD.,
33 Percy St., London, W.1.
AND ALL WHOLESALERS.

C. DAMSCHINSKY'S

AMERICAN LIQUID DYE.

Single Preparation for the Hair and Beard.



This excellent Dye has an enormous Sale all over the World.

MADE IN
FIVE NATURAL SHADES,
BLONDE, LIGHT BROWN,
BROWN, DARK BROWN,
AND BLACK.

2/- Size 15/- per doz. net.

3/- „ 22/- „ „ „

SIMPLE TO USE.

WILL DYE
RED, GREY OR FADED HAIR
TO THE DESIRED SHADE
IN A FEW MINUTES.

IT IS NOT A BLEACH.

WILL NOT DYE DARK HAIR
LIGHTER.

From all Wholesale Houses or direct from sole British Agents :

OSBORNE, GARRETT & CO., LIMITED,

LONDON, BIRMINGHAM AND GLASGOW.

THE "OGEE" FETTPOWDER.

THE Ogee THE Ogee

THE PREMIER POWDER FOR THEATRICAL USE.



In White, Rose, Natural and Rachel.

PRICE **12/6** PER DOZEN.

PROPRIETORS OF

THE CELEBRATED "OGEE" BRAND OF GREASE PAINTS,

AND THEATRICAL PERFUMERY.

OSBORNE, GARRETT & CO., LIMITED,

BIRMINGHAM. **LONDON, W.** GLASGOW.

Embe

LYSOLID

The Liquid Lysol

Prov. Pat. No. 16799.

IS EQUAL TO THE FORMER LIQUID LYSOL BUT HAS ADVANTAGES.



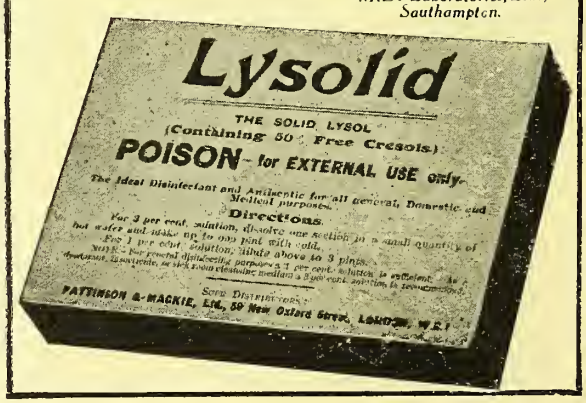
You are not humbugged by oozing corks, messy or broken bottles. Lysolid is packed in handy sections, one of which dissolved in a pint of water makes a 3% solution.

Lysolid is meeting with a good reception, presaging healthy sales and good profits. Have you tried Lysolid? It means bigger profits and a more satisfactory product.

Write to-day for free sample and trade terms—there is no obligation in doing so.

PATTINSON & MACKIE, Ltd.
Albion House, 59 New Oxford St.
LONDON, W.C.1.

Manufactured by
M.B. Laboratories, Ltd.,
Southampton.



DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo.	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads	36/-	4/-
BARSYDE - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive prespiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

INDIA:
KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH, STANISTREET & CO. (Calcutta).
MEHTA BROS. (Calcutta)
JAMNADAS BROS. (Bombay)

NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:
DEARBORN, Ltd., Calle Salta 264, Buenos Aires.

TRADE Vaseline MARK

CAPSICUM & CAMPHOR ICE





These advertisements will appear in all the leading Magazines and Periodicals during November and December.

SHOWCARDS WILL BE SENT ON APPLICATION.

CHESEBROUGH MFG. CO. CONS.
42 Holborn Viaduct, E.C.1.

BOURJOIS

PARIS.

POUDRE de RIZ de JAVA

No. 45. 2/- Size.		No. 495. 1/3 Size.	
1 doz. ...	16/- doz.	1 doz. ...	11/- doz.
6 ,, ...	15/9 ,,	6 ,, ...	10/9 ,,
12 ,, ...	15/6 ,,	12 ,, ...	10/6 ,,

The P.A.T.A. prices for "Poudre de Riz de Java" are 2/- and 1/3 per box.

"JAVA" Powder is now being largely advertised to the public.

LOOK TO YOUR STOCKS.

A. BOURJOIS & Cie, Ltd., 66 Carter Lane, LONDON, E.C. 4.

Also manufacturers of the celebrated "ASHES OF ROSES," 15/- per dozen.

To Satisfy your Customers Is to Increase your Business

LINARIS TOILET PREPARATIONS

(1) Give absolute satisfaction–Guaranteed
(2) Are prepared from the finest Drugs obtainable.
(3) Show splendid profits to the Retailer.
(4) Invariably bring repeat orders.
(5) Are beautifully packed in Opal-topped Jars and large golden boxes tied with purple ribbon. Make a splendid counter show.

LINARIS Vanishing Cream
LINARIS Bath Powder
LINARIS Henna Shampoo Powder
LINARIS Camomile Shampoo Powder
LINARIS Massage Cream
LINARIS Tonic Cream
LINARIS Beauty Cream
LINARIS Face Powders

Profit of over **33⅓%**

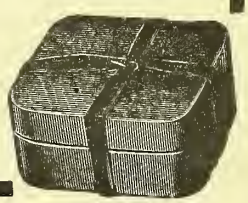
Send direct to

LINARIS TOILET PREPARATIONS (Dept. X)

31 Westbourne Grove, London, W.2



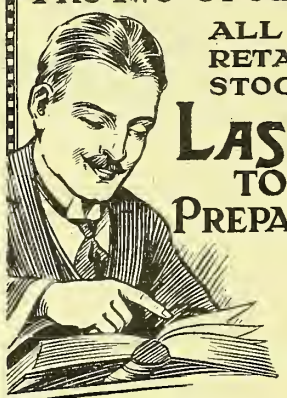
Carriage paid on all orders over £5.



The Two Great Reasons Why

ALL KEEN RETAILERS STOCK

LASÈGUE TOILET PREPARATIONS





(1) THE RETAILER'S PROFIT. (2) THE CUSTOMER'S DELIGHT.

DO YOU STOCK LASÈGUES?

Duvet de Roses, Poudre de Riz,
Laits de Beauté, Rouges,
Poudres Compactes, Varnish,
Pastes and Powder for the Nails

Send for Price List, or, better still, your order for a £5 sample parcel to the

Sole Agents for the United Kingdom :

THE AUTABLE CO., Ltd.

57 Moorfields, LIVERPOOL.

Selling Six Tablets in place of One

A Profitable Christmas Line

WITH every gross of Gibbs Cold Cream Soap ordered—whether in one dozen or quarter-dozen boxes—we pack, free of extra cost, 25 % of the order in useful Glove and Handkerchief boxes, each containing 6 tablets. This offer is made to RETAILERS only, and a mention that these Gift Boxes are wanted should be made when sending the order. These dainty boxes make attractive counter or window displays, and, being useful and inexpensive gifts, sell at sight. The price to the public remains as usual, 7d. per tablet, including the box. You sell six tablets as easily as selling one.

In addition to supplying free the Gift Boxes, we are making a special advertising effort in respect of Gibbs Cold Cream Soap during November and December in the principal National and Provincial Press, including pages in colours in the leading illustrated weeklies. Thus a big increase of trade in Gibbs Cold Cream Soap is assured during the latter months of the year. Send an order now for two gross or upwards, make sure of getting your share of the handsome Gift Boxes, and make them a feature of your Christmas display.

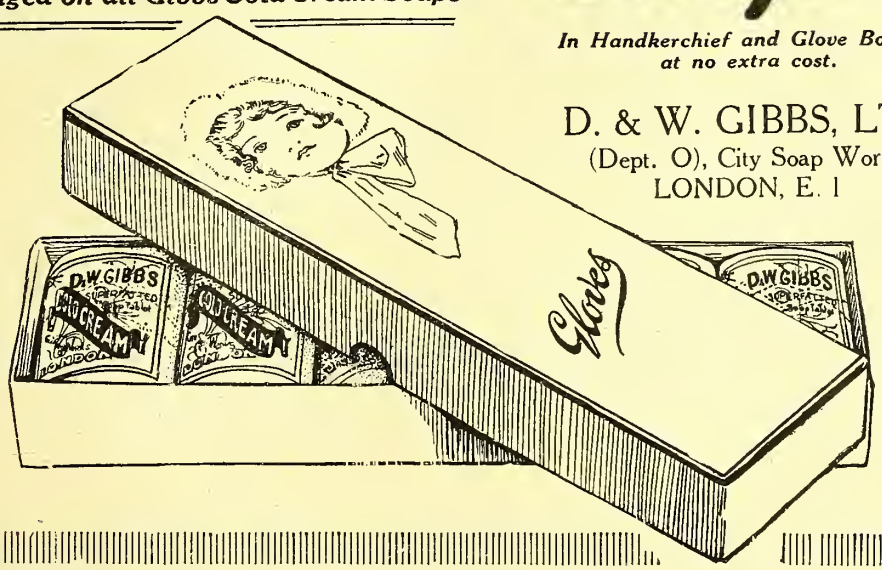
The Price to you now yields a definite 33⅓% profit on turnover, as recently arranged on all Gibbs Cold Cream Soaps



Gibbs COLD CREAM Soap

In Handkerchief and Glove Boxes—at no extra cost.

D. & W. GIBBS, LTD.
(Dept. O), City Soap Works,
LONDON, E. 1



May we

send you, free of charge, a bottle of any one of our new series of Toilet Preparations ?

An illustration would not do justice to the attractiveness and finish of these preparations, and anything we said about them would not be half so convincing as an ocular demonstration. Just write on a postcard: "Your offer 'C. & D.' Nov. 13, accepted," and by return we will send you a bottle of any one of the series, together with full particulars.

The series consists of Bay Rum, Toilet Paraffin, Brilliantine, Bay Rum and Cantharides, Hair Cream and Eau de Quinine. Uniformly labelled and finished, packed in half-dozen show outers.

RAYMET & CO. LTD.
507/509 Harrow Road, London, W. 10.

SOMETHING NEW!!

"PELLIN"

is an antiseptic cream, which, when applied to the hands, quickly evaporates, leaving a soluble skin on the hands; it is practically invisible, and can scarcely be felt, yet it is there, protecting the hands against the penetration of dirt into the skin. The dirtiest job imaginable can be undertaken with impunity, safe in the knowledge that when the hands are washed once in cold water, with plenty of soap to dissolve the "PELLIN," all traces of dirt are removed instantly, leaving the hands perfectly soft and white.

We have had "PELLIN" tested by a well-known London Analyst, who reports as follows:—

"This preparation does what the manufacturers claim for it; it is of the greatest efficiency in rendering the Skin immune from dirt, whether of a greasy nature or not, and the skin can be washed quite clean immediately, however dirty and greasy it may be. It contains a powerful antiseptic, and is in my opinion an exceedingly valuable and useful preparation for which the manufacturers' claims are not exaggerated.

I find it to contain nothing of a harmful or caustic nature, so that it can be used safely on delicate skins."

(Signed)——————**F.I.C., B.Sc., F.C.S.**

The original signed Report can be inspected by any interested party at our office.

ADVERTISING MATERIAL AND SHOWCARDS SUPPLIED.

Sample Tubes supplied Gratis in proportion to Quantity ordered.

Further particulars on application to—

C. R. HARKER, STAGG & MORGAN LTD.

DEVON WHARF and BELL WHARF,

EMMOTT STREET - - - MILE END, E. 1.

HILL BROTHERS (MANUFACTURING) LTD.



Manufacturers of first-class toilet preparations, including the well-known

CRÈME SPÉCIALE

Our products are all characterised by that high degree of quality which has sold our goods on the French market for the past 28 years.

HEAD OFFICES:
5 Fenchurch St., London, E.C. 3.
Telephone: Central 4241.
Telegr. Address: "HILCHEMIC, LED, LONDON"

WORKS:
Harrow, Middlesex, & at Paris.

KEENOLIA Hair Cream.

MADE UP IN TWO SIZES:
4 oz. retails at 1/3
8 oz. „ „ 2/-
Attractive Showcards supplied GRATIS.

From all Wholesalers, or direct from Manufacturers.

The "CASSON BRAND"
COLD CREAM
LANOLINE
LAVENDER ICE

TRADE CASSON BRAND MARK

THE CASSON CHEMICAL CO. LIMITED,
44a WESTBOURNE GROVE, LONDON, W.2.
Telephones: Park, 2884 & 3568.

"Newbery's"
FRANCIS NEWBERY & SONS Ltd

You will profit by stocking our Packed Goods, and your customers will obtain satisfaction.

Castor Oil	Brilliantines
Syrup of Figs	Hair Cream
Medicinal Paraffin	Dental Cream
Chemical Food	Smelling Salts
Bath Salts	

All these lines attractively packed.

CHARTERHOUSE SQUARE, LONDON, E.C. 1.

THE ELCO BRAND

Selling points of 30 ELCO specialities

QUALITY

The quality has had first consideration. The formulæ of all the Medicinal preparations have been carefully revised and, wherever possible, improved upon. The toilet preparations have been given close thought, not only in manufacture *but in general make-up.* They can be claimed to be the most attractive on sight and the most effective in use. In fact the quality of ELCO is like that of mercy. "It is twice blest; it blesseth him that gives and him that takes."

GET-UP

All cartons are designed on the same lines in order that YOU may benefit by the goodwill attached to the distinctive ELCO seal and checkered border. They are a big help to first sales and their pleasing appearance gives promise of the excellent preparations they advertise.

ADVERTISING

ELCO specialities are their own advertisement. It needs but the initial sale to make them certain repeats. Most ELCO goods are put up in decorative show outers which carry the retail price of the goods displayed. Transparencies and Gummed Window Slips are also supplied, and the 32-page illustrated booklet containing useful matter concerning ELCO Household remedies and Toilet preparations is of invaluable aid in getting customers acquainted with *all* the specialities bearing the ELCO seal. "Tested Aids to Health and Beauty" is the title of the Booklet—for FREE distribution from your counter.

PRICES

All prices are on the P.A.T.A. With the exception of ELCO Malt and Oil they yield an average profit of over 70%—and in £5 lots, which may be assorted and which carry a 5% discount, *of 80% on cost.* 50 of the booklets "Tested Aids to Health and Beauty" are supplied to customers who order £5 worth of ELCO specialities, or 100 booklets for a £10 order. Fullest particulars in relation to the ELCO scheme, supplies of advertising material and actual profit on individual specialities can be had on application to the manufacturers

EVANS SONS LESCHER & WEBB LTD.

LIVERPOOL. New York. LONDON.

MARSHALL'S

Lysol



This ENTIRELY BRITISH-OWNED Product is now made in our New Factory at

RAYNES PARK
LONDON, S.W.19

Pharmacists are asked to specify Marshall's Lysol ("L" Brand) when ordering from their wholesaler in order to obtain the standard British article.

LYSOL LIMITED, RAYNES PARK, S.W.19.

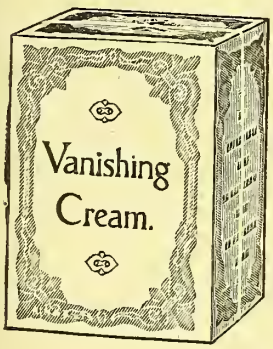
Telegrams: "Lysolant, Cotten, London." Telephone: Wimbledon 339/340.

Hovenden's Toilet Preparations.

Attractive in Appearance, Reliable in Quality and Delicately Perfumed.

SEASONABLE — Suitable for High-Class Trade.

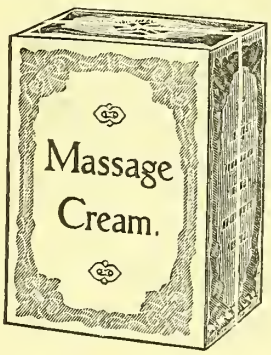
SALEABLE — Bear our Trade Mark as a Guarantee of Quality.



WHITE.
No. 4764. 2-oz. size.
13/- doz.



No. 4766. 2-oz. size.
13/- doz.



No. 4765. WHITE. **13/-** doz.
No. 4768. 2-oz. size. PINK (Non-Greasy). **13/-** doz.

THE LATEST POPULAR SERIES.

Invaluable for all Toilet Purposes.



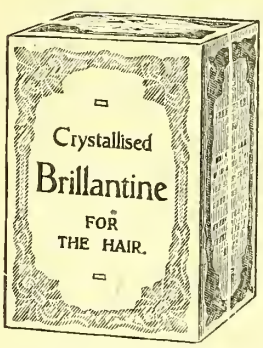
No. 4767. 2-oz. size.
13/- doz.



CHAMOMILE,
CHAMOMILE & ROSEMARY, PINE.
No. 4747. 7 packets in carton.
12/- doz. cartons.

Any article on this page can be supplied with Customer's Name and Address, in 1 gross quantities, FREE OF EXTRA CHARGE.

Each in Artistic Carton with Transparent Covering.



ASSORTED PERFUMES.
No. 4762. 2-oz. size.
12/6 doz.

SPECIAL QUOTATIONS FOR LARGE QUANTITIES.

Subject to 2½ per cent. Cash Discount.
A copy of our Monthly Illustrated List will be sent on application.

R. HOVENDEN & SONS, Limited

89, 91, 93 & 95 City Road, Finsbury, E.C.1. Tel. No.: Clerkenwell 1260 (2 lines); and
29, 30, 31, 32 & 33 Berners Street, Oxford Street, W.1. Tel. No.: Museum 2810 (3 lines) **LONDON.**

Factory, 41 to 53 Britannia Row, Islington, N.

Monthly 5-Guinea Cash Prizes Open to all Retailers

To Stimulate New and Enterprising Sales-Making Ideas.

TAKE a look at your window. Look at it from the point of view of a critic asking himself if it shows the best possible kind of window display to arrest and hold the attention of passers-by. Next, think over the all-important question whether your window is paying its rental value.

The window costs every Retailer from 50% to 75% of his rent, and as such should pay the tenant a good profit.

Windows there are a-many that are not paying their high proportion of the rent, and immediately this fact is perceived some enterprising and successful new sales-making ideas are bound to arise in the mind of the Retailer.

A Retailers' Revealing Experience.

A London suburban Retailer has had a most encouraging experience of the value of new sales-making ideas in the dressing of his window.

It all arose out of a challenge which this open-minded Retailer accepted in the true British sporting spirit. The story may be briefly told. When the Dentalos Co.'s traveller called on him, he said he was "full up" with dentifrices. The way in which he said it implied that he was more than "full up"—he was "fed up."

The traveller noticed that this Retailer's display did not make the most of its real value, and he offered to dress his window. The chemist agreed, and the traveller made an effective display with "Dentalos" Dental Foam, also tooth brushes and other kindred lines. The result was that this Retailer telephoned for further supplies the next day, and sold within four days a gross and a half of "Dentalos," besides greatly increasing his average sales of many other lines as the direct result of the eye-arresting display bringing in many more customers than his usual "ordinary" window.

True, no small measure of this success was achieved by reason of the central display of the "Dentalos" Prize Competition Show Bill. This Show Bill offers a 120-guinea Fur Coat, or any 1921 Model Motor Cycle or Scooter, as exhibited at the Olympia Exhibition, 1920, for a title for the new "Dentalos" picture poster featuring the "Dentalos" Trade Mark.

Every retailer who would like to enjoy a similar experience of the sales-making value of the same window-dressing idea is here invited to try for one of the monthly 5-guinea Cash Prizes offered to the Trade, and names of the winners of which will be announced in *The Chemist and Druggist* monthly.

The 5-guinea prize is offered for the most interesting "Experience" of the sales-making value of the "Dentalos" Window Display, accompanied by a snap-shot of the display for publication for the information and encouragement of other Retailers.

This idea is really worth trying, for there is also a £25 Cash Prize offered to the Retailer who supplies the winner of the Public Competition with his or her "Dentalos"—and every Competitor has to give the name of his Retailer.

The Dentalos Co. will be pleased to supply the same Show Bills with any size order for "Dentalos" Dental Foam. The Trade Terms are inviting, namely: Retail at 1/3 per tube (Trade at 10/6 per dozen, net monthly a/c, or 5% discount for cash with order.) FREE BONUS to those desirous of trying out this sales-making idea whole-heartedly. 1½ DOZEN TUBES FREE with every order for one gross. Carriage paid on all Cash Orders.

Another point of this proved sales-making idea to note is that many of the buyers of "Dentalos" are buying not one tube at a time, but 3's, 6's, and even dozens of "Dentalos"—which every Chemist will agree has points of superiority ensuring future sales to all who try it.

Where Assistants are employed, here is a chance to awaken *their* interest in sales-making window and counter displays, by the offer of a share or the whole of the Prize Money.

Reading and Thinking are no good without Action—so why not send in your order to-day to—

THE DENTALOS CO., 22 CHARTERHOUSE SQUARE, LONDON, E.C. 1.

MINIMUM RETAIL PRICE **5/6** each. In a box.

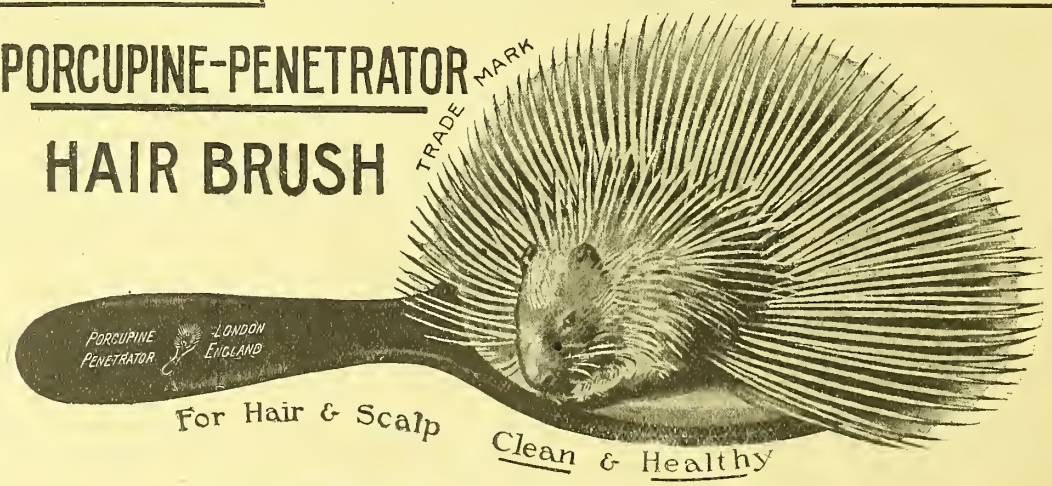
ONE PRICE—The Cheapest

ONE QUALITY—The Best

MILITARY SIZE **5/6** each. Boxed in pairs.

PORCUPINE-PENETRATOR HAIR BRUSH

TRADE MARK

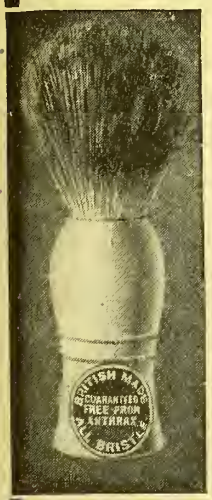


Ebonised Back in White Bristles and Bone.

MANUFACTURED IN LONDON (England)

under Hygienic and Patent Process. Supplied to the Wholesale and Shipping Trade only by the Manufacturers, M. Neuhafer & Levi, Ltd., 11 Fore Street, E.C.2.

Anthrax Danger



There is danger from Infected Brushes, as recent fatal cases show.

Our Brushes are Guaranteed Absolutely Free from Anthrax.

British Made
Genuine Bristle
Perfectly Safe

12/6, 14/6, 24/- & 30/- per doz.

Terms — Cash with order. Immediate delivery. Satisfaction Guaranteed or Money returned in full.

THE
Jewellers' Novelty Co.
113 West Regent Street, GLASGOW.

Dressing
Pocket
Dust
COMBS
Horn or Galalith

Ebony hand
Nickel Shaving
MIRRORS

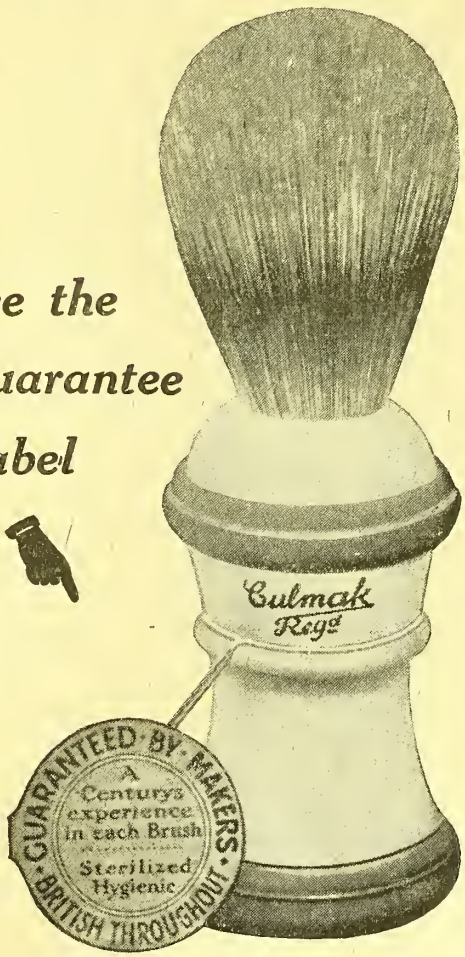
Ebony
Rosewood
Baby
Shaving
(Anthrax free)
Iodine
Throat
Corn Solvent
Hair
BRUSHES

Ebony
Ivory
Bone
MANICURE
CASES and Requisites.

WHOLESALE AND EXPORT ONLY SUPPLIED

A. E. DEPRETER,
24 HOLBORN, LONDON, E.C. 1.
Telephone: Holborn 3182.
Telegrams: "Aedepretelon, Smith, London."

THE
"Culmak"
SHAVING BRUSH



See the Guarantee Label

SELLING PRICES
4/6 to 15/-

To be obtained from all Wholesalers

IT PAYS YOU 33 1/3 %

P.A.T.A.

The T.P.
Safety Razor

has distinctiveness in addition to being the last word in S.R. efficiency, quality and workmanship. Specially convenient for travellers and tourists, and attractive to the man who takes a pride in the smartness and ingenuity of his personal belongings. As gifts these razors are recommended as having the quite distinctive novelty so desirable in good-class

XMAS PRESENTS

To Introduce.
Sample against P.O. 13/6;
mention your Wholesale Factor.

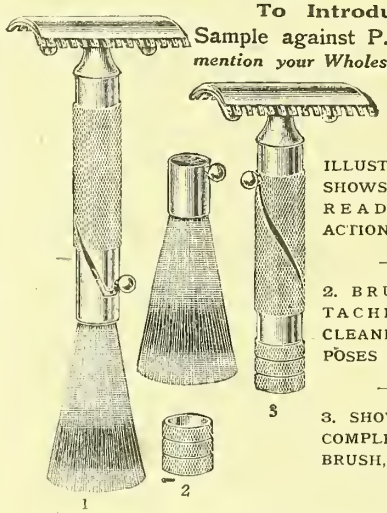


ILLUSTRATION 1 SHOWS BRUSH READY FOR ACTION

2. BRUSH DETACHED FOR CLEANING PURPOSES

3. SHOWS RAZOR COMPLETE WITH BRUSH, CASED

The Frame is heavily plated Luna Pattern, and can be had fitted in cases or in bulk

MADE IN A VARIETY OF STYLES
FITTED WITH BLADES COMPLETE,
BADGER BRUSHES IF REQUIRED,
BRUSHES RENEWABLE

ALSO

CURVED TOP Safety RAZORS

Single Stem or Two-Piece Handles and Gillette Type.

SAFETY RAZOR STROPS
for Gillette, Clemak & Double-sided Gillette Type

WHOLESALE AND EXPORT

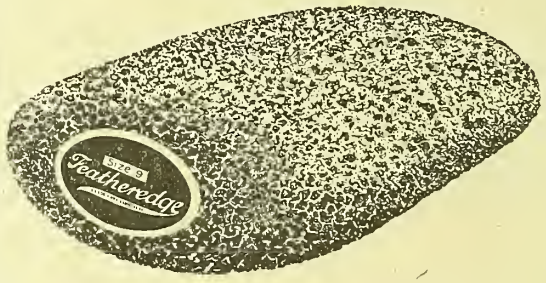
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London Office: 49 LONDON WALL, LONDON E.C 2

Export House:
DRAYTON PAPER WORKS, LTD., South Park, FULHAM, S.W.6

Featheredge
TRADE MARK

RUBBER SPONGES



Are durable and do not harden. When used with soap, they make a delightful lather.

Obtainable of all Wholesale Druggists' Sundries Houses

MARKT & CO., LONDON, LTD.

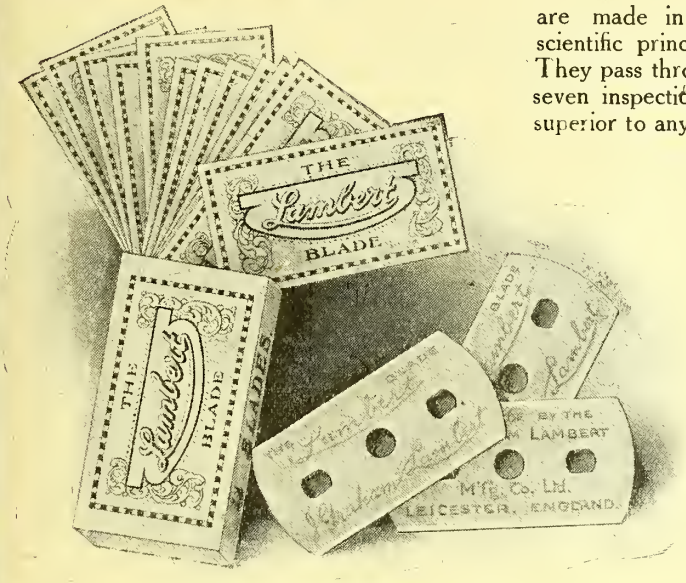
American Merchants

SOLE IMPORTERS

98-100 CLERKENWELL ROAD,
LONDON, E.C. 1.

4/- PER DOZ.

THE Lambert Blades



are made in our Leicester Factory on the latest scientific principles by specially designed machinery. They pass through twenty-three distinct processes and seven inspections during the manufacturing, and are superior to any blade on the market.

Sales are being accelerated by a carefully planned advertising campaign commencing immediately in the *Daily Mail* and other widely circulated newspapers.

Ask your wholesale house for supplies, or, if you experience any difficulty in securing stocks, write to us direct. **Showcards and trade terms sent free on request, also particulars of the Lambert Safety Razor Outfits, selling at 17/6—a fine line to handle.**

Mr. Graham Lambert was for several years superintendent of works for the Gillette Safety Razor Company, Leicester. The Lambert Factory has been equipped with the most modern machinery.

GRAHAM LAMBERT MANUFACTURING Co. Ld.
Nottingham Rd., LEICESTER.

MADE IN LEICESTER, ENGLAND.

WE SPECIALIZE IN

SAFETY RAZORS

BLADES. STROPPERS.

Each pattern of

Every Standard Make

from stock, at Manufacturers' prices.

List on Application.

H. TILLNER, 172 OXFORD ROAD, **READING,** BERKS.

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—

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Wholesale and Export ONLY.

COMBS

DRESSING - RAKE - TOOTH

Write for Samples and Quotations for immediate delivery.

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17/18 Chapel St., Whitecross St., London, E.C.2
Phone: CITY 5321.

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(ANTISEPTIC)

The Non-Abrasive **HAND CLEANSER.**

THE most attractive and original box in which Sprinko is packed, combined with its distinctive and exceptional properties as a hand cleanser, make it a very quick selling line. It only needs to be shown in counter or window display and it will sell at sight. Ensure your share of this trade by getting in a good stock.

Sprinko is a perfect hand cleanser for Motorists, Cyclists, Mechanics, Farm or Garden workers and everyone engaged in Factory or Household duties which result in dirty and grimy hands. It cleans the hands quickly, keeps them smooth and white, and leaves no unpleasant odour behind it.

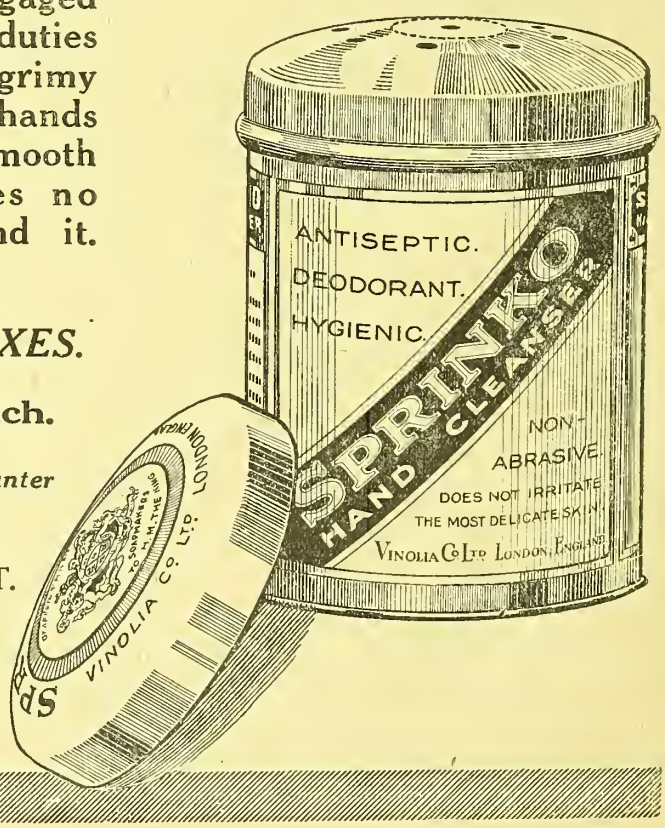
IN NEW STYLE
SPRINKLER-TOP BOXES.

Retail Price 1/- each.

Makes a striking display on counter or window and sells quickly.

YIELDS A GOOD PROFIT.

Attractive – Original – Profitable.



VINOLIA COMPANY LIMITED,
LONDON.

Offices and Works: BEBINGTON, CHESHIRE.

Sp 6—29 T

Chemists—please note

This Advertisement is appearing in the following publications during November and December :—

Ladies' Field	Sphere	Home Notes	Daily Mirror
Gentlewoman	Pictures	Vogue	Picture Plays
Eve	Woman's Life	Tatler	Sunday Express
Sketch	Reynolds' Newspaper	Illustrated London News	Weldon's Ladies' Journal
Graphic	Lady's Pictorial	Bystander	Fashions for All
Sporting & Dramatic News	Queen		


CUTEX
Manicure Set
CUTEX
CUTEX
CUTEX

BOOK (1921) ALMANACKS FOR Xmas Presentation

A good **Book Almanack** is always acceptable. We are making a **Special Offer to Chemists to supply 1000**, giving the whole of front page of cover for Name, Address and Advertising Matter for £4. These Almanacks are fully illustrated and contain good reading. They can be supplied in sheet form in any quantity so that Chemists can incorporate them with price list, etc., and have the whole completed by their local printer.

Write for Specimens—Almanack Dept., CASSELL & CO., Ltd., La Belle Sauvage, London, E.C.4.



Just published. 17th Edition. Vol. I. **27/-** net, postage 6d.

THE EXTRA PHARMACOPOEIA

By MARTINDALE and WESTCOTT. Vol. II. will be issued later.

PRESS NOTICES.

"A unique vade-mecum alike for the medical practitioner and the pharmacist."
Pharmaceutical Journal.

"Well known and widely appreciated . . . . one of the few books which medical practitioner, analyst, and pharmacist cannot afford to be without." *Lancet.*

Descriptive Leaflet on application. **On the P.A.T.A at face value.**

London: H. K. LEWIS & CO. Ltd., 136 Gower Street, W.C. 1

Also of W. MARTINDALE, 10 New Cavendish Street, London, W. 1.



PLANO The handy Tablet for CHAPPED HANDS

and roughness of the skin. **Retail 3d. Per Tablet.**

Smartly got up with new attractive packing and show material, ***"PLANO" needs no pushing.*** Just keep a show box on the counter, and it will sell itself.

Your Customers will be pleased and will come again.

LOOK AT THE PROFITS.

1-gross 22/-; (21/5 net.) Sells for 36/-
(13 doz. for cash with order.) Cash Bonus 3/-
Profit 17/7. 39/-

Carriage Paid. Prompt Despatch.
Send us your Orders now. ***Sample on Application.***

MILNER'S CHEMICAL CO. LIVERPOOL.

CHEMISTS' OVERALLS

From GARDINER & CO.

We supply protective overalls in any colour or style required. They are made by experienced hands for all branches of the Chemical trade.

KHAKI DRILL	-	17/6	21/- 26/6
WHITE DRILL	-	17/6	19/6
BLACK DRILL	-	19/6	

Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.

SPECIAL QUOTATIONS FOR QUANTITIES.

GARDINER & CO. (THE SCOTCH HOUSE) LTD.

1 Commercial Road, E.1.

EST. 1839. Phone: AVE. 6650 (4 lines).

VALUE FOR MONEY

IN

DECORATED TIN BOXES

SCREW CAPS PILL BOXES.

We can save you shillings per gross—
SEND FOR A QUOTATION.
If you want Tin Boxes with
ATTRACTIVE DESIGNS, LIDS
that ***FIT***, and DELIVERED to TIME

Write or Phone—

THE STAMPING & PRESS TOOL CO. Ltd.

Works: Oaklands Road, CRICKLEWOOD, N.W. 2.
Phone: Willesden 614.

YOU MAY WANT TO

Buy a Business, Sell a Business, Secure an Agency, Engage an Assistant, Procure a Situation, or Sell Odd Lots of Chemists' Requisites

If so, you can do it quickly and satisfactorily by an advertisement in

THE CHEMIST & DRUGGIST SUPPLEMENT

This is the Tariff:

Businesses Wanted and for Disposal, Premises to Let, Goods and Shop-fittings for Sale, and Agencies: 6/- for **50** words; every additional **10** words or less, **6d.**

SITUATIONS OPEN: 6/- for **40** words; every additional **10** words or less, **6d.**

SITUATIONS WANTED: 2/- for **18** words; every additional **10** words or less, **6d.**

Legal Notices, Tenders, Auctions, and all specially spaced announcements, **1/3** per nonpareil line (12 lines=1 inch single column).

Miscellaneous (Wholesalers') Section, for odd and second-hand lots; **10/-** for **60** words; **1/-** for every additional **10** words or less.

EXCHANGE COLUMN (for Retailers, etc.). **Twopence** per word, minimum **2/-**

BOX NUMBER.

In each case replies may be addressed to a registered number or nom-de-plume, c/o this Office, **at a charge of 1/- extra** for each advertisement.

Address all communications to
THE PUBLISHER, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4

Telegrams: "Chemicus, Cannon, London" (2 words)
Telephone: Central 3617 (3 lines)

For JUST what YOU WANT

IN

GLASSWARE

OF EVERY DESCRIPTION and FOR ALL PURPOSES

JULES LANG & SON hold huge stocks in the Provinces ready for immediate local delivery, and in their North and West London Depots approximately

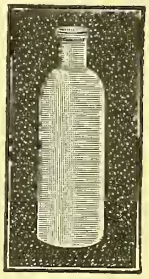
TEN THOUSAND CASES!!!

are available. No other firm can claim to hold such a general stock in the Kingdom. NEARLY all your needs can be met on request. Limes, Medicals, Vials, Tobins, Mexicans, Cheltenhams, Male and Ear Syringes, Kalis, Opal Pomades, Flint Pomades, Smelling Salts, Panels, Cannons.

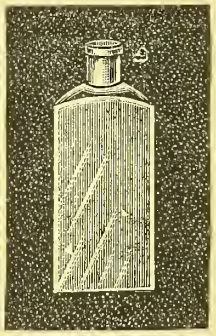
6-dram., -oz and 1-oz. Green Vials.



Kali



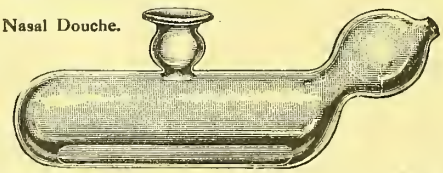
Lime



Medical

Tubes of all sizes, Test Tubes, Douche Linings, Burettes, Separating Funnels and many other lines in Chemical and Laboratory Glassware.

Nasal Douche.



WHOLESALE ONLY. NO RETAIL FIRMS SUPPLIED.

JULES LANG & SON

CHARLTON WORKS:

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Telephones: North 2770-2 (three lines). *Telegrams:* "Assorted, Phone, London."

ALTERATIONS IN TRADE LIST PRICES

During OCTOBER, 1920

The following list relates to the changes in prices which have occurred in respect to staple products or important alterations of prices of products in less frequent demand:—

NOTE.—The prices given below are current trade list prices to which 10% is to be added to arrive at the Minimum Selling Prices to the public.

TRADE MARK 'TABLOID' BRAND—	Trade List Price per dozen 25's	100's
Antifebrin, gr. 2	8/0	24/0
,, ,, gr. 5	10/0	30/0
,, ,, Compound	—	36/0
,, Astringent Mixture	—	54/0
,, Caffeine Citrate, gr. 2	—	36/0
,, ,, ,, Eff. B.P., gr. 60	42/0	—
,, Calomel, gr. 2	—	18/0
,, ,, gr. 3	—	20/0
,, ,, gr. 5	—	24/0
,, ,, and Colocynth Comp.	—	30/0
,, ,, Compound	10/0	30/0
,, Colocynth and Hyoscyamus, gr. 4, *pln.* and *s/c*	—	30/0
,, ,, Compound, gr. 4, *pln.* and *s/c*	—	30/0
,, Gentian and Soda Compound ...	—	20/0
,, Ginger Essence, min. 5... ...	—	18/0
,, Glycerophosph. Compound, dr. 1/2, *s/c*	15/0	45/0
,, ,, ,, 2 c.c., *s/c*	15/0	45/0
,, Ipecac. and Squill, gr. 4, *pln.* and *s/c*	—	30/0
,, Iron Carb. Sacch., gr. 5 ...	—	24/0
,, Lymphatic Gland, gr. 5 ...	—	120/0
,, Menthol, gr. 1/4	15/0	45/0
,, ,, Compound	—	45/0
,, Mistura Alba	—	30/0
,, Piperazine, gr. 5, Eff. tubes of 12		45/0

TRADE MARK 'TABLOID' BRAND—*continued*	Trade List Price per dozen 25's	100's
Reduced Iron, gr. 2	—	24/0
,, ,, ,, Compound ...	12/0	36/0
,, ,, ,, and Rhubarb Co.	12/0	36/0
,, Residuum Rubrum, gr. 5 ...	—	30/0
,, Veronal, gr. 5	30/0	—

TRADE MARK 'SOLOID' BRAND—	Trade List Price per dozen
Alum, gr. 10 ... ... bottles of 100	20/0
,, ,, and Zinc Sulphate ,, ,, 25	18/0
,, ,, and Zinc Comp. Strong ,, ,, 25	20/0
,, Boric Acid, gr. 6 ... ,, ,, 25	16/0
,, ,, ,, gr. 15 ... ,, ,, 50	16/0
,, ,, ,, and Zinc Sulphate ,, ,, 25	16/0
,, Carbolic Acid, gr. 5 ... tubes of 25	15/0
,, ,, ,, gr. 20 ... ,, ,, 12	15/0
,, ,, ,, gr. 60 ... ,, ,, 6	16/0
,, Sodium Bicarbonate, gr. 44 bottles of 25	18/0
,, 'Tolamine,' gr. 8·75 ... ,, ,, 100	80/0
,, ,, gr. 87·5 ...' tubes of 10	48/0
,, Zinc Permanganate, gr. 1/8 bottles of 100	48/0
,, ,, Sulphate, gr. 10 ... ,, ,, 100	16/0

BURROUGHS WELLCOME & CO., LONDON

G 950

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For the Busy Pharmacist.

A Reliable WINTER LINE, SELLS WELL—GOOD PROFIT
and gives entire satisfaction to the Public.

M. D. COUGH CURE.

Retail	1/3	Wholesale	10/6	per doz.	Less our Profit-Sharing Discount of 10%
,,	2/3	,,	19/-	,,	
,,	4/-	,,	34/-	,,	

This line is Cartoned in an attractive, forceful and Saleable style.
Large Window Bill and Showcard supplied.
Book early to ensure delivery. Carriage Paid on orders of £6 value.
Registered Chemists only supplied.

CUPAL LIMITED - - - BLACKBURN.

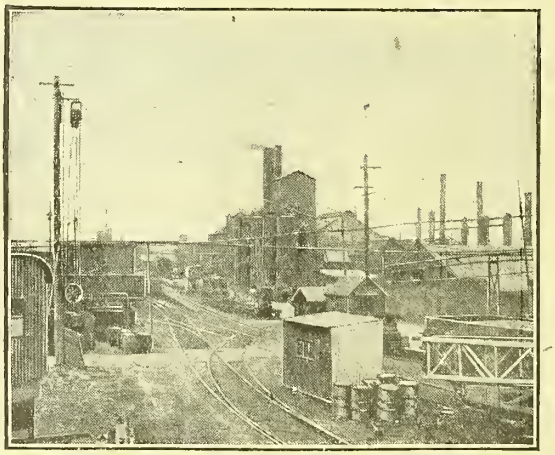
'Ialine' Disinfectants

Also
FLUIDS
containing
10 — 80 %
Tar Acids.
High Co-efficient
FLUIDS
up to 18—20
Rideal-Walker
Method.

LYSOL

SHEEP DIP

Approved by the Board of Agriculture for Sheep Scab.



Coal Tar and Ammonia Products

Benzols, Toluol, Solvent Naphthas. Carbolic and Cresylic Acids, Creosote and Fuel Oils, Pitch, etc. etc. Timber for Dock and Harbour work. Deals, Battens, Boards, Floorings, etc. Railway Sleepers and Crossing Timbers, Telegraph Poles, etc. etc. Saw Millers and Timber Preservers.

Burt, Boulton & Haywood, Ltd. Salisbury House, London Wall, E.C. 2

Telegrams: "Burboul, Ave, London." Cables: "Burboul London."
Codes: A B C (5th Edit.); Lieber's; Western Union; Bentley's.

CARBOLIC POWDERS
CREOSOTE POWDERS
CO-EFFICIENT POWDERS
PINE OIL POWDERS
PINE OIL FLUIDS
PINE OIL BLOCKS
NAPHTHALENE BALLS
,, CANDLES
,, TABLETS
,, FLAKE
,, BLOCKS
,, POWDER
LIQUID SANITARY SOAP
WOOD PRESERVATIVE
ETC. ETC.

THE CHEMIST AND DRUGGIST

ESTAB 1872

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in the Overseas Dominions.

Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 9*d.* post free; *Diary*, 5*s.* post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20*s.*, franco

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 20ch., franco.

Terms for Advertising may be obtained on application to the Publisher

HEAD OFFICE: 42 CANNON STREET, LONDON, E.C. 4.

Telegrams: "Chemicus, Cannon, Lo. don." Telephone: Central 3617 (three lines).

BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.

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Coming Events.

Wednesday, November 17.

London (Western) Pharmacists' Association, Holborn Restaurant, London, W.C. Annual dinner at 7 P.M. Reception at 6.30 P.M. Tickets (10*s.* 6*d.* each) from the Committee and Hon. Secretary.

Newcastle-on-Tyne Pharmacists' Association, Y.M.C.A. Hall, Blackett Street, at 7. P.M. Lantern lecture by Dr. J. Stanley White, on "The Nature and Uso of Biological Products."

Thursday, November 18.

North London Pharmaceutical Association, Progressive Pharmacy Club, Arundel Hotel, Strand, London, W.C. Meeting of the "Script" Sports Club.

West Ham Association of Pharmacists, Earlham Hall, Forest Gate, at 2.30 P.M. Address by Mr. E. Skues on "Stockkeeping and Stocktaking."

West Midland Federation of Pharmaceutical Associations, The Crown Hotel, Broad Street, Worcester. Meeting at 5 P.M. Mr. L. Moreton Parry (Pharmaceutical Council) will speak. The Worcester Association is providing tea for visitors at 4.30 P.M.

Friday, November 19.

Pharmaceutical Society of Great Britain, 36 York Place, Edinburgh, at 8 P.M. Inaugural sessional address on "Ergot: Its History and Chemistry," by George Barger, M.A., D.Sc., F.R.S., Professor of Chemistry in relation to Medicine, Edinburgh University.

BIRMINGHAM PHARMACEUTICAL ASSOCIATION.—The inaugural meeting will take place at the Grand Hotel on November 24, as follows: At 6.30 P.M., reception by the President and Mrs. Atkinson; 7 P.M., dinner; 8.15 P.M., speeches; 8.30 P.M., musical entertainment. Applications for dinner tickets (10*s.* 6*d.* each) must reach the Secretary by November 20.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Royal Society Election.

The following is a list of those recommended by the President and Council of the Royal Society for election to the Council at the anniversary meeting on November 30:

President, Professor C. S. Sherrington; *Treasurer*, Sir David Prain; *Secretaries*, Mr. W. B. Hardy and Mr. J. H. Jeans; *Foreign Secretary*, Sir Arthur Schuster; *Members of Council*, Mr. J. Barcroft, Sir William Bragg, Dr. A. W. Crossley, Professor J. B. Farmer, Sir Walter Fletcher, Professor A. Fowler, Dr. A. C. Haddon, Sir Robert Hadfield, Sir Thomas Heath, Professor J. Graham Kerr, Professor H. Lamb, Sir William Leishman, Dr. S. H. C. Martin, Professor J. W. Nicholson, Mr. R. D. Oldham, and Professor W. P. Wynne.

International Advertising Exhibition.

The time for entering photographs in the window-dressing competition which is being organised in connection with the International Advertising Exhibition at the White City, Shepherd's Bush, has been extended to November 22. (See *C. & D.*, October 16, p. 46.) The window-displays should be on view at least during the week commencing November 15, and the photographs are required to be sent to the Secretary, International Advertising Exhibition, 167 Strand, London, W.C. 2.

Apothecaries' Assistants Admitted to the Register.

The following list of persons admitted to the Register of Chemists and Druggists under Section 4 (*b*) of the Poisons and Pharmacy Act, 1908, had not been received when we went to press with our report of the Pharmaceutical Society's Council-meeting of November 3, at which their admission was authorised:

Barlow, Selma F., London.
Bokenham, L. R., Burton-on-Trent.
Brownlow, J., London.
Coste, Ada E., London.
Edge, A. W., Whitefield, Manchester.
Evans, G. R., London.
Evans, S. M., London.
French, A. H., Southampton.
Langham, E., Shrewsbury.
Lascelles, J. J., Birmingham.
Padget, W. H., Newport (Mon.).
Trayner, F. E., London.
Way, W. S., Coulsdon.
Wolstenholme, Annie, Manchester.
Wood, J. T., Accrington.

Municipal Elections.

The following members of the drug-trade have been successful at the local municipal elections held recently: J. H. Coleman, Wolverhampton; C. A. Critchley, Blackburn; A. G. Felthouse, Chipping Norton; C. Gerring, New Romney; W. T. Goldthorpe, Beverley; E. W. Gough, Croydon; S. Harris, Droitwich; W. Maskew, Ph.C., Hertford; H. R. Metcalf, Newbury; A. B. Reynolds, Wallingford; C. R. Stevens, Queenborough; E. Wyborn, Lewes.

The case of Harrogate is somewhat exceptional, there being three representatives of pharmacy on the council, Messrs. A. Mortimer, A. W. Wood, and A. Lambert Foster (director of Camwal, Ltd.). The latter two gentlemen have been elected this week.

Philip's "Standard" Retail Price List.

The following are among the alterations and additions in the current issue of Philip's "Standard" Retail Price List: *Drugs.*—Ac. acetic., 2*d.* oz.; ac. acet. glac., 4½*d.* oz.; ac. citric. pulv., 7*d.* oz.; ac. oxal. coml., 5*d.* oz.; ac. salicyl., B.P., 7*d.* oz.; ac. tart. pulv., 5*d.* oz.; adeps lanæ hyd., 2½*d.* oz.; bals. sulph., 6*d.* oz.; camph. flor., 1*s.* 2*d.* oz.; crem. tart. pulv., 4*d.* oz.; cret. c. camph., 12½ per cent., 3½*d.* oz.; eau de Cologne, No. 1, 2*s.* 5*d.* oz. (No. 2, 1*s.* 8*d.* oz.); ess. anisi, 1 in 10, 1*s.* 9*d.* oz.; ess. menth. pul., 1 in 10, 1*s.* oz.; ferri et quin. cit., 2*d.* 10 gr.; glycerinum, 4½*d.* oz.; hyd. ammon. pulv., 1*s.* 2*d.* oz.; lin. camph., 5*d.* oz.; lin. camph. ammon. meth., 4½*d.* oz.; lin. saponis meth., 4*d.* oz.; magnes. carb. lev., 2½*d.* oz.; magnes. carb. pond., 3½*d.* oz.; menthol, 1*d.* 3 grs.; ol. juniper. bacc. exot., 2*s.* 11*d.* oz.; ol. sassafras nat., 2*s.* oz.; ol. succini rect., 4½*d.* oz.; phenazon., 2*d.* 10 gr.; potas. permang., 6*d.* oz.; quin.

sulph., 4*d*. 9 gr.; sapo moll., B.P., 4*d*. oz.; sp. ammon. arom., 6*d*. oz.; sp. camph., 10*d*. oz.; succ. glycyrrh., 6*d*. oz.; syr. rhamni, 3½*d*. oz.; syr. rhei, 4½*d*. oz.; syr. scillæ, 3½*d*. oz.; syr. sennæ, 4*d*. oz.; syr. tolut., 4*d*. oz.; tereb. venet. fact., 3*d*. oz.; ung. resinæ, 5*d*. oz.; vin. ipecac., 6*d*. oz. *Goods Sold by Pint, etc.*—Ol. lini, 2*s*. pt.; ol tereb., 2*s*. 5*d*. pt.; sp. vini meth., 1*s*. 8*d*. pt. *Packed Goods.*—Chemical food, 3-oz. bot., 1*s*. 2½*d*., 8-oz. bot., 2*s*. 5½*d*.; malt extract, in jars, 1-lb., 2*s*. 1*d*.; malt extract with cod-liver oil, in jars, 1-lb., 2*s*. 4*d*. *Surgical Dressings* (*Packed*).—Lint, white, absorb., 1-oz. 7½*d*., 8-oz. 4*s*.; lint, boric, 1-oz. 5*d*., 8-oz. 2*s*. 8½*d*.; cotton-wool, white, No. 1, 1-oz. 5*d*., 8-oz. 2*s*. 7½*d*.; bandages, water-dressing, No. 1, 1-in., 4*d*., 3-in., 11*d*.

Dyes Conference Wanted.

At a meeting of the Executive Council of the Chemical and Dyestuffs Traders' Association in London, on November 4, the following resolution was unanimously passed, on the motion of the chairman, Mr. F. T. T. Reynolds, seconded by Mr. A. F. Butler: "That in view of (1) the uncertainty and anxiety prevailing among manufacturers, distributors, and users of dyestuffs regarding the provisions of the Bill the Government intend introducing to prohibit the importation of artificial dyestuffs except under licence; (2) the desirability in the national interest of securing a system that, while accomplishing the end desired, is equitable and just to all concerned and causes a minimum of inconvenience and detriment; and (3) the obvious advantage arising from a scheme that would meet with general approval and support, the Executive Council of the Chemical and Dyestuffs Traders' Association are strongly of opinion that a conference representative of all the interests involved should be convened at an early date, and respectfully requests the Board of Trade to take the initiative in summoning and arranging for such a conference."

Profiteering Act.

At Lambeth Police Court, London, on November 10, the hearing of the case against Parke's Drug Stores, Ltd., in respect of a sale of 1 oz. of cream of tartar (*C. & D.*, October 16, p. 51) was concluded. Mr. Washington Fox, solicitor, who appeared for the defence, explained that, although the price charged (8*d*.) was in fact charged in error by an assistant, even a sale at 8*d*. per oz. yielded only the same profit on this article as before the war—64 per cent. Mr. Alfred Higgs, J.P., gave evidence as to the wholesale and retail prices both before and since the war. The magistrate held that, so long as the percentage of profit on any article remained the same as it was before the war, the vendors were protected by the Act, and dismissed the summons.

Apprentice's Fatal Fall.

An inquest was held at Sunninghill, on November 2, on the body of Mr. Harry Godfrey Cobb, apprentice to Mr. T. G. Stewart, chemist and druggist, High Street. Mr. Patrick Henry McSweeny, chemist and druggist, manager of Mr. Stewart's Sunninghill branch, stated in evidence that on October 7 he (witness) was busy in the shop and asked deceased to open the trap-door for him, as he wanted to go into the cellar. Deceased opened the trap, and then went into the stock-room. It was only a matter of seconds before deceased came out of the stock-room and was down the cellar. Witness saw deceased fall, but was not near enough to save him. Deceased had done the same thing for witness a few minutes before, and had closed the trap himself. He was quite familiar with the working of the lid. He knew that the wife of Mr. Allen, a former manager, had fallen down there. It might have been possible to have had some protection, but it would have interfered with the free access to the room. Expressing the opinion that there had been no negligence on the part of anyone, the coroner said he found that deceased died from septic pneumonia following a fall down the cellar steps on October 7.

Birmingham.

One hears on every side: "We cannot get things."

The business of Phineas Keats is understood to have been acquired by Linells.

A florin of pure tin and a silvered farthing have deceived the unwary of late.

Lady dispensers are kicking—figuratively—against being paid less than 3*l*. 3*s*. a week.

The favourite medicine of the local panel practitioners is said to be mistura sodii salicylatis.

Mr. Wilfred Southall, Ph.C., is to lecture on Palestine on several occasions during the coming winter.

"Ladies under the age of thirty are not a success in business," says a large employer of female labour.

Mr. F. Barlow, Balsall Heath, has returned to his former position on the local pharmaceutical council.

The Mond Nickel Co., Ltd., London, have acquired the works of Henry Wiggin & Co., Ltd., Icknield Street.

Mr. Laurence C. Tipper, in a recent letter to the Press, protested against assessments being increased "without method, rhyme, or reason."

Two dental surgeons are to be appointed under the Birmingham Education Committee at a salary of 400*l*. (rising to 550*l*.) per annum.

Miss Phillips, who was for some time at a local branch of Boots, Ltd., has recently opened a pharmacy in Moseley, and has also become a member of the local Association.

Among those who have recently subscribed to the funds of the General Hospital are Southall Bros. & Barclay, Ltd., Cadbury Bros., Ltd., and Alfred Bird & Sons, Ltd.

Mr. Justice Shearman, whose name has been so prominent during the past few days, won the 100-yards flat championship in 1876 and the quarter-mile in 1878 at the then Birmingham Athletic Festival.

Referring to a note on the "black and tans" (*C. & D.*, November 6, p. 67), a correspondent writes that a Birmingham chemist is joining "the noble army of hod-men, at 5*l*. 10*s*. per week of forty-four hours."

Mr. J. W. Atkinson, chemist and druggist, Six Ways Pharmacy, who has recently returned from a tour in Canada and the United States, is, it is understood, the next President of the Birmingham Pharmaceutical Association.

The city council has instructed the various committees, in the absence of specific authority to the contrary, to give preference to contractors who have adopted the Government scheme for finding employment for disabled ex-Service men.

Alderman Clayton, Ph.C., is serving on the water committee and the drainage board of the corporation, and Mr. Jeffrey Poole (who has been touring with Mr. Atkinson in the New World) on the baths committee and the markets and fairs committee.

An arts professor at the Midland University recently extolled the virtues of sodium chloride as a coal-saver. He was, however, beaten by the "Birmingham News," which has recommended one pound of it with 2 oz. of oxalic acid to be dissolved in a definite quantity of water, and so forth!

Liverpool.

Business at the wholesale houses is now in full ante-Christmas flood.

Several windows are looking much the brighter in consequence of Mr. G. E. Marfitt's visit.

Boots, Ltd., are making a window-display at one of their branches with a 4*s*. 6*d*. vacuum flask.

A case has been cited locally of a pharmacist who for thirty-nine years had no vacation beyond half-days on Bank Holidays.

Scholarships in art, music, and science to the value of 10,000*l*. are being offered by the Lancashire County Council for competition in the secondary schools.

Mr. A. J. Jones, Ph.C., the author of one of the papers in the science section at the recent British Pharmaceutical Conference, is the latest recruit to the Liverpool Chemists' Association.

It is hoped that the ex-Lord Mayor of Liverpool and the Vice-Chancellor of Liverpool University will be present at Mr. William P. Evans's post-Conference dinner on November 17.

Dr. J. Stanley White lectured to the students of the Liverpool School of Pharmacy, on November 8, at the Royal Institution, on *Ductless Glands*. Mr. H. Humphreys Jones presided.

Mr. R. H. Barker, chemist and druggist, Windermere, has paid a flying visit to Liverpool this week in order to see his daughter-in-law sail for India. He called upon some of the pharmacists who recently visited him at Windermere.

Not since the Maybrick case of thirty years ago have local chemists taken so much interest in a charge of alleged poisoning as in the Greenwood trial. The defending counsel, Sir Edward Marshall Hall, K.C., formerly represented Southport and (later) Liverpool (East Toxteth) in the House of Commons.

A local legend of "the good old times" graphically depicts the "frowsy pharmacy" of which Earl Crewe spoke many years ago. After being dismissed without any reason being assigned, an assistant learned that the offence of which he had been guilty consisted of removing the dust and cobwebs from the window-carboys!

"I have never talked to so attentive an audience, nor has my lecture been followed by such laudatory remarks," said Mr. G. E. Marfitt (Leicester) in reply to the vote of thanks of the Liverpool Chemists' Association for his exposition of *The Art of Window-dressing*. Mr. Marfitt is a competitor for the 1,000*l*. prize at the forthcoming advertising exhibition at the White City (London). A remark made by Mr. Harold Wyatt, Ph.C., was, in our telegraphed report (*C. & D.*, November 6, p. 86), credited to Mr. John H. Robinson. Both, however, spoke in appreciation. Mr. Wyatt, by the way, was one of the justices of the peace invited to the installation luncheon given by the new Lord Mayor of Liverpool (Mr. John H. Johnston) on November 9.

A pleasant informal function took place on November 4 at 56 Hanover Street in the shape of a presentation, on behalf of the office and warehouse staffs, to Mr. John Ellison, head cashier, and his *fiancée*, Miss Barbara Chadwick, until recently a member of the staff, in view of their forthcoming marriage. The presentation was made by Mr. J. McCaig, head of the drug-buying department. The gifts consisted of a silver tea-and-coffee service, with the addition of cake-dishes, fruit- and flower-stands and a case of stainless steel cutlery from the Liverpool office and warehouse staffs, and a food-container from the garage staff at Berkley Street. Mr. G. E. Gillard (secretary), who occupied the chair, voiced the good wishes of the staff. Mr. McCaig referred to the fact that over six hundred had subscribed to the presentation, and stated that the chairman of the company (Mr. William P. Evans) had asked him to convey to the gathering the warm appreciation of the directors of Mr. Ellison's services to the company and their sincere wishes for his happiness. Mr. Ellison and Miss Chadwick thanked the gathering for their gifts.

Miscellaneous.

Window-dressing Competition.—Two first-class awards were made to Boots, Ltd., High Street, Canterbury, in a window-dressing competition held in the city on October 27.

Fire.—On November 6, the premises of Allen & Hanburys, Ltd., Three Colts Lane, Bethnal Green, London, E. 2, were damaged by an outbreak of fire, which, however, was confined to the first floor. The cause is unknown.

Headache Powders Analysed.—Samples of headache powders recently examined by the Durham county analyst are reported as free from the slightest trace of any alkaloid. The report continues: "The drugs used in these preparations are perfectly legitimate for the purposes for which they are intended . . ." (See *C. & D.*, July 31, p. 39).

Alleged Traffic in Morphine.—At Lambeth Police Court, London, on November 4, the hearing of the case against C. Parker and B. Smith, charged with the unlawful possession of morphine valued at 10*l*. (*C. & D.*, November 6, p. 66), was continued. It was stated in evidence that one of the accused offered to sell some at 3*l*. 15*s*. per oz. Mr. A. T. Parsons, of the Clement's Inn Government laboratory, deposed that a powder submitted to him was morphine hydrochloride, of which 2 gr. represented a fatal dose for an ordinary person. The hearing was again adjourned.

New Trade Board.—By the Trade Boards (Boot and Floor Polish) Order, 1920, published in "The London Gazette" of November 5, the Trade Boards Acts, 1909 and 1918, are applied to (1) the manufacture of boot and shoe polish or cream, blacking, dubbin, floor polish or cream, and (2) the manufacture of stain for leather or a polish for leather or furniture when carried on in association with the manufacture of the articles specified in paragraph one. The ordinary operations incidental to any of these processes are comprised in the Order, but not the manufacture of boxes or other containers.

Panel Practitioner Committed for Trial.—At Ramsgate Police Court, on November 5, the hearing of the charge against John Aston Swindale, M.D. (*C. & D.*, October 23, p. 47), was continued. Witnesses were called to dispute the accuracy of the accounts sent by the defendant to the Insurance committee. In the case of a discharged soldier named Denton, defendant had forwarded an account in respect of twenty-seven visits, but Denton, in the witness-box, denied that he had ever been attended by the doctor. The defendant was committed for trial, bail, on his own recognisances of 100*l*., being allowed.

In the Courts.—In Bolton County Court, on November 3, George J. Warburton, 25 Barbara Street, sought possession of the shop, 87 Bridgeman Street, tenanted by a Mrs. Shorrocks. It was alleged that the defendant carried on an objectionable business in drugs there. The case was adjourned for further evidence to be produced.—At West Ham Police Court, on November 5, a girl named Battersbee, charged with stealing two tablets of soap, valued at 1*s*., the property of her employers, John Knight, Ltd., soap manufacturers, Silvertown, E., was bound over.—At Plymouth, on November 6, three Chinese seamen were each sentenced to three months' hard labour for being in illegal possession of raw opium and liquid opium. One man stated that the drug had been purchased in Amsterdam.

Chemists' Sudden Deaths.—At Bow Street Police Court, London, on November 5, George Cecil Murray Tinline, Curzon Hotel, Curzon Street, W., was remanded on a charge of being drunk while in charge of a motor-car and with feloniously killing Mr. Ernest Waterhouse, chemist and druggist, Mare Street, Hackney, E. 8, by knocking him down with the car. Bail was allowed. In the Westminster Coroner's Court, on November 10, a verdict of "Manslaughter" was returned against Tinline, a chauffeur.—The body of Mr. J. Ogilvie Moulson, retired chemist and druggist, Bradford, was, on November 8, found in a temporary engine-house connected with some works which are in course of erection in the Ingleby Road district. Mr. Moulson, who was a married man with a grown-up family, had not enjoyed the best of health for some time past. It was stated at the inquest on November 9 that death was due to hydrocyanic-acid poisoning, and a verdict of "Suicide while temporarily insane" was recorded.

C 3 Men in Pharmacy.—According to a contribution to "John Bull" of October 30, large numbers of the Government students "who failed in the June examinations had so overworked themselves that they were not in a fit state to be examined." The mention of "June examinations" suggests that something has gone wrong in the Press, or that someone has been "selling a pup."

Decontrol Advocated.—That the interests of the Empire will be better served when the State reverts to its former position and leaves industry unfettered was the view expressed by Sir Herbert Morgan, a director of A. & F. Pears, Ltd., when addressing the Society of Civil Servants in London recently on "The Limits of State Participation in Industry." Sir Herbert mentioned that during the war he had been a deputy director-general in seven different Government departments.

Irish News.

Brevities.

The drug business carried on for thirty years at English Street, Armagh, by the late Mr. John Orr is for sale by private treaty.

The winter session of the Chemists' and Druggists' Society of Ireland opened with a social on November 10 in Thompson's Restaurant, Belfast.

The premises of Mr. D. Herriott, Ph.C., Nenagh, were seriously damaged by a fire which occurred in the town on November 2 as the result of political disturbances.

A co. Wexford conference of representatives from local public boards has approved of the principle of combined purchasing of supplies by Irish public bodies. For the present it is thought attention should be directed to certain commoditics, including medicines and medical supplies.

At a recent meeting of the Portrush Urban Council a letter was read from the Local Government Board intimating that the auditor had disallowed payment of 132*l.* and had surcharged the sum against the three persons who signed the treasurer's authority. One of these is Mr. A. C. Scott, J.P., R.D. The clerk said the payment was towards the expenses of the Peace Day 1919 celebrations. An appeal has been lodged.

Mr. J. Edgar Connor, Newry, President of the Pharmaceutical Society of Ireland, and Mr. W. Campbell Meeke, the Society's solicitor, have been in London this week while the Government of Ireland Bill was being considered in the House of Commons. The attitude of the Government in not countenancing the putting forward of amendments by ordinary members has so far prevented any effectual steps being taken to safeguard the interests of the Society's licentiates.

Scottish News.

Brevities.

The prices of drugs in the current retail lists show a large percentage of decreases.

The prescribing of arsenical mixtures has become popular of late. Liq. arsenicalis and emuls. ol. morrhuæ is not infrequently met with.

It is hinted, writes a correspondent, that the unemployed among the qualified may take up the matter of rigid enforcement of the Pharmacy Acts.

Thurso Merchants' Association recently passed a resolution condemning the adoption of a scale of wages for shop assistants in rural districts as likely to cause many businesses to close down.

"Your informative editorial on the Proprietary Medicines Bill (*C. & D.*, October 30, p. 81) has been much appreciated in Scotland," writes a correspondent. "We have to thank the various bodies mentioned who have taken up the fight. It is the duty of everyone to act on the advice of Xrayser II. and 'press it home.'"

"Travellers in Scotland were seldom so numerous," writes a correspondent. "They have to talk warily, however, for highly controversial matters are in the air. A dejected, sad-eyed client, like a cartoon of a Pussyfooter, has been known to show himself to a bewildered chance commercial as a vigorous adherent of the other party."

The following pharmacists are among the successful candidates at the Scottish municipal elections: Messrs. W. Davidson, Blairgowie; J. F. Hunter, Dingwall; J. Kerr, Grantown-on-Spey; J. Lockerbie, Dumfries; W. M. Elliot, Coldstream; A. McEachran, Campbeltown; W. Meldrum, Rothesay; J. H. Nicholson, Maxwelltown; J. Peebles, Kirkcaldy; R. J. Shennan, Dalbeattie; and W. S. Taylor, Inverurie.

Unemployment Insurance.

The Chemists' Friendly Society, 194 St. Vincent Street, Glasgow, has become a division of the National Association for Unemployment Insurance, and is now in a position to offer unemployment benefit to its members. The Unemployment Insurance Act, 1920, permits this to be done so long as an approved society provides extra unemployment benefit equal to a third of the amount of benefit payable under the Act. The extra benefit is an additional 5*s.* per week for men, and opportunities of finding employment when out of work. A quarterly payment of 4*s.* 4*d.* is required from those who take advantage of the offer. Particulars will be sent on application to the manager of the Chemists' Friendly Society.

Glasgow Pharmacy Athletic Club.

The first whist-drive of the season, under the auspices of the Glasgow Pharmacy Athletic Club, was held on November 2 at 165 Hill Street. Mr. W. Wood Wilson presided over a large attendance of members and their friends. The prizes, given by Mr. John Thomlinson, of John Thomlinson, Ltd., wholesale stationers, were presented to the winners by Mrs. Moss, wife of the company's local representative. The winners were:—*Ladies*: (1) Miss Wassell (rose-bowl), (2) Mrs. Arthur McEwan (hall card-cup); *Gentlemen*: (1) Mr. McChesney (combined cigar and cigarette case), (2) Mr. Middleton (fountain-pen). The artists were Mrs. Lawson, Messrs. Calder, Grant, Ross, and Watt. The next drive is arranged for November 23. Tickets may be obtained from Mr. Dow, 131 Hyndland Road. The football section of the club has arranged the following matches in the Half-holiday Football League: November 16, *v.* Avonbank Co-operative, Rosebery Park, Oatlands; November 23, *v.* North-West, Rosebery Park, Oatlands; November 30, *v.* Avonbank Co-operative, Burnside; December 7, *v.* Paisley Butchers, Ralston Park, Paisley; December 14, *v.* Cathcart United, Rosebery Park. New players will be welcomed. The secretary is Mr. John Greig, 305 Crow Road, Partick.

Edinburgh.

The number of students attending day-classes at the Heriot-Watt College is 776. The evening students number 3,212.

Dr. J. F. Tocher, Ph.C., at a meeting of the Highland and Agricultural Society in Edinburgh, on November 3, reported on his investigations into what is known as "grass sickness" in horses. The disease is attributed to an organism similar to that of "botulism," and a serum has been prepared. Investigations are being continued.

A correspondent, commenting on the letters concerning "Women in Pharmacy" which are still appearing in the lay Press, remarks "that none of the ladies appear to have thought it worth while replying. Chemists, after all, are better to confine their discussions to their own Press. The public read lay newspapers as a matter of mere habit, often becoming confused in the process."

Fifeshire.

Bailie W. Smart, chemist and druggist, has been elected Provost of Buckhaven.

Mr. Charles S. S. McDonald, Auchtermuchty, points out that one of his initials was misprinted in this column of our last issue.

Mr. J. B. McLaren, chemist and druggist, Kirkcaldy, has been returned unopposed as a Water Commissioner for the third ward [corrected note].

The question of the "free" sale of methylated spirit was discussed at a recent meeting of the National Democratic party at Kirkcaldy. A resolution in favour of further restriction was forwarded to the Secretary for Scotland and to certain members of Parliament.

Glasgow.

The staff of Mr. T. Mackinnon, chemist and druggist, Govan, held, on November 2, a successful dance and supper in the Gladstone Hall.

The blue paper for the Temperance Act vote and the white paper for the municipal vote gave rise to numerous witticisms concerning the "Seidlitz-powder election."

The Kidwelly Case.

Expert evidence in the trial of Harold Greenwood, indicted at Carmarthen Assizes for the wilful murder of his wife (*C. & D.*, November 6, p. 84), was taken on November 4 and 5, and Mr. W. E. Bell, chemist and druggist, had been recalled for further questions as to the composition of Eureka weed-killer. On November 6, Miss Beatrice Brooks, an assistant with A. W. Gamage, Ltd., Holborn, London, E.C., stated (as a witness for the defence) that on March 14, 1918, Messrs. Gamage supplied weed-killer to Greenwood, but she could not remember the quantity. The following is a *précis* of the analytical and toxicological evidence, and of Mr. Justice Shearman's references to dispensing and other matters in the course of his summing up:

Analytical Results.

Mr. John Webster, F.I.C., expert adviser to the Home Office, examined, deposed that he found a total of 18 milligrams of arsenic in the organs that he analysed (*C. & D.*, July 10, p. 58). He naturally tested for morphine, among other alkaloids, and he found none. The first test for arsenic he used was the Reinsch test, and he afterwards employed the modified Marsh test. Various portions of the stomach, from eight or ten different parts of it, were taken with the object of having a fair sample of the whole stomach, and from that known amount of parts of the stomach he made a mixture. This mixture of pieces weighed 25 grams. That was treated, in order to dispose of the organic matter, with sulphuric acid. What remained was made up into a suitable solution, which was then made up to a certain volume. In the case of the stomach, it was diluted to a volume of 25 c.c. He took 15 c.c. of the solution, and that was put into the Marsh test apparatus, which had been carefully tested beforehand. From this hydrogen was evolved, and that hydrogen was passed through a narrow glass tube, which was heated. If there was any trace of arsenic in the gas which was evolved, a deposit of metallic arsenic would be left on the tube. The witness produced a large number of tubes, each of which represented a particular organ. He also produced a case of standard mirrors prepared from known quantities of arsenic. Taking up one of the tubes, the witness said it was the mirror of the 15 c.c. of solution which had been made up from the portion of the stomach, and it would be correct to refer to it as "the stomach mirror," in order to identify it. The deposit in the stomach mirror varied in colour from grey or greyish-black to brown. That mirror was compared with his series of standard mirrors, and the one that matched the stomach mirror in colour showed the amount of arsenic present. There were fifteen of these standard mirrors, ranging from $\frac{1}{100}$ milligram to $\frac{1}{500}$ milligram. The amount of arsenic in the organs was arrived at by different methods. One was the Marsh test. Another was by precipitation of the arsenic as sulphide of arsenic, and by weighing the amount precipitated. It gave almost exactly the same result. In the weed-killer submitted to him he found 55.6 per cent. of arsenic, or $2\frac{1}{2}$ gr. in 4 gr. When mixed with port wine or tea the alteration in colour and taste was very slight.

Cross-examined: He had special standard mirrors to make the comparisons in this case. Glass could contain arsenic, and the heat to which it was submitted in the test might possibly liberate arsenic from the glass; but the substance to be analysed was not put in until the glass had been heated and examined. He had found no difference in the distribution of arsenic in different parts of the liver. Arsenic was not constantly detectable in the human body; he had found it in very minute quantities in some cases; in others, none. Glucose had been largely imported from the United States during the war, and he did not know to what extent it was controlled. In the cases of bismuth and magnesium salts the British Pharmacopœia allowed a small contamination of arsenic. He believed that arsenic was employed by so-called beauty specialists. In the Seddon case over 2 gr. of arsenic was found in the body. If 1 gr. of morphine had been given with fatal results, he would expect to find traces of it in the body ten months later; but it was possible that he would not find it.

Re-examined: Out of a hundred bodies he would expect to find very minute traces of arsenic in ten. A minute trace would be $\frac{1}{1000}$ gr. He believed that the Arsenic Commission found that a man had died of arsenical poisoning without any arsenic being found in the body.

Symptoms of Arsenical Poisoning.

Dr. W. H. Wilcox, examined, explained that arsenical poisoning would vary under different conditions. For instance, the symptoms would appear sooner when the stomach was empty and when the arsenic was in solution, and the symptoms would be delayed possibly for hours if the stomach was full and the arsenic was in solid form. If taken in solution on an empty stomach the symptoms would probably appear in an hour. The fact that in this case there was very little arsenic in the stomach indicated that several hours must have elapsed between the time the poison was taken and death. Probably the interval was at least nine hours. Various symptoms were observed in arsenical poisoning. There might be some pain at the mouth if the solution was strong, and also pain in the upper part of the stomach. There might be nausea, and then possibly, later, sickness and colic-pains in the abdomen. There might be symptoms also of diarrhœa, and another symptom would be exhaustion and collapse. The organs not examined—muscles, skin, etc.—would contain two or three times as much arsenic as was present in the organs examined.

Cross-examined: If the late Mrs. Greenwood had had 1 gr. of morphine in the condition that she was in, and did not vomit, he would have expected her to die in a few hours. Two $\frac{1}{2}$-gr. opium pills would not be absorbed in ten minutes. He had not known a medical man to say that the terms "morphia" and "opium" were interchangeable. From the ordinary use of weed-killer by watering paths, there would not be a risk of arsenical poisoning to anyone walking on those paths or sitting in the garden. In the Seddon case there was a second examination in order to see if there was any arsenic in the hair and muscles. He would not say that, if a poisoner wanted to escape detection, there was no worse poison than arsenic for the purpose, because the preservative effect was not so marked that one could diagnose arsenical poisoning by preservation only. Where a large dose had been given, there was ample preservation. He agreed with the statement in Taylor's "Medical Jurisprudence" that there must be proof of a grain or a large fraction of a grain of arsenic in the viscera, subject to the qualification that, in this case, there was a sufficient lapse of time for the greater part of the arsenic to be evacuated. Cramp and thirst were not to be regarded as constant symptoms. In the Seddon case there was severe thirst, but no cramp. A normal injection of salvarsan was equivalent to 2.2 gr. of arsenic, but arsenic in organic combination had not the same effect as free arsenic. If the late Mrs. Greenwood had taken four teaspoonfuls of Fowler's solution through a mistake of Dr. Griffiths's, instead of four teaspoonfuls of an Oppenheimer's standard bismuth liquor, the arsenic found would be accounted for. The two liquids resembled one another in colour.

By the Judge: Made-up morphine pills as strong as $\frac{1}{2}$-gr. were quite common, and, to verify that, he had made inquiries in Carmarthen and had found a pharmacy in which it was the custom to keep them. The number of people who died in the Manchester beer-poisoning case was seventy. As to the suggestion that fumes from wall-paper would poison, in that case the arsenic was converted into gas, which was very poisonous. It was the same gas which was produced in the Marsh test.

Re-examined: As a medical man, he hoped it would be very unlikely that Fowler's solution could be substituted for an Oppenheimer's solution. If gooseberry skins had caused the vomiting mentioned in the case, it would not have continued to the extent stated, which was more consistent with mineral poisoning.

Points for the Defence.

Lieutenant-Colonel Frederick Sherman Toogood, barrister-at-law, a toxicologist under the London County

Council, examined : Assuming that 1 gr. of morphine had been given, the actual cause of death was morphine poisoning. A great deal of water had been drained away from the system, and the morphine would be absorbed at once. He would not expect to find any trace of it in the body after ten months. Gooseberry skins were a chemical irritant. Weed-killer would dry up and be blown about by the wind, and he did not think it impossible for the late Mrs. Greenwood to have inhaled sufficient to leave the amount found in her body. Painters got lead into their lungs during the process of rubbing down : the same thing applied to T.N.T.

Cross-examined : He would not suggest that, if ¼ gr. of arsenic had been found, 2 gr. must have been inhaled. No one knew the amount required to give that result, nor the amount that could be stored in the liver without causing illness. Arsenic had been known to remain for ninety-three days after a single dose.

Dr. William Griffiths, Swansea, examined : The finding of ¼ gr. of arsenic in the viscera of a corpse is by no means conclusive evidence that the person died of arsenical poisoning. A living body can contain more than ¼ gr. of arsenic, very frequently does contain 2½ gr., and may contain as much as 5 gr. without any deleterious effects upon the health of that individual. His opinion was that Mrs. Greenwood died from morphine poisoning.

By the Judge : An alternative cause of death was that, if the patient was suffering from heart disease, a severe attack of gastro-enteritis would bring about a fatal result.

A Doctor's Prescription-book.

In the course of his closing speech for the defence, Sir Edward Marshall-Hall made the following reference to the part of the evidence of Dr. Griffiths, Kidwelly, bearing on his copy of a prescription :

Dr. Griffiths knew that inquiries were being made, and on June 3 he wrote out the prescription on a piece of blue paper, and swore that it was a copy made from a book which he kept for the purpose of recording prescriptions. One of these prescriptions was on the face of it fallacious, because it was not a prescription at all, but merely a component portion of the stock solution which he kept. He was told to bring the book, but went away and did not bring it back, and his first answer was that the book had been destroyed when he gave up business. But he gave up business last December, and he had said he had copied the prescription from the book in June. If he had the book, why had he destroyed it, because he must have destroyed it in June? At last it had dawned upon the mind of this unfortunate man that he might have made a mistake, and he was anxious to produce evidence to show what his prescription was. If he had written in the book at the time when he was making up this medicine, that would have been something to show to the jury that he had not made a mistake. But when he was tested it was found that he had really nothing to show.

The Charge to the Jury.

His lordship, in summing up on November 9, reviewed the evidence in detail, and towards the close of his remarks said that the jury had to consider how the arsenic got into the body, if it was there. One suggestion was that Dr. Griffiths, instead of taking down a ready-made bismuth solution, took down enough arsenic to kill three or four people, and sent that over by gross carelessness. It was quite clear, if that was so, it was not a question of damages; he would be liable to criminal prosecution, and it would be open to a jury to find him guilty of manslaughter. It was suggested by the defence that that was the way arsenic was introduced into the body, and if that was so there would be an end to the case. There was no one who said the doctor was drugged or drunk, and there was nothing that was not normal about his appearance. He was not even asked whether he kept a virulent poison side by side with ordinary mixed stuff, and who could prove that these bottles had been analysed?

Sir Edward Marshall-Hall : Dr. Willcox tasted them and accepted them.

His Lordship : If so, it is an extraordinary way to prove a case. I accept it from you, Sir Edward, but one would have thought you would have called the man who compounded these two bottles.

Sir Edward Marshall-Hall : The whole point is that there is no compounding. They are both stock solutions.

His lordship said that no one had been called to say that they were the same as alleged. The only evidence they had had was that put in on the fourth day of the trial in cross-examination of a witness who did not dispute what counsel suggested to him. It was suggested that Dr. Griffiths sent out a virulent medicine, because it happened to have the same colour as the other. Bismuth mixture contained chloroform and had a strong smell, and it would be easy to see the difference between it and Fowler's arsenic solution. If they exercised their judgment they would possibly hesitate to believe that a medical man had committed such an extraordinary mistake. The second allegation against Dr. Griffiths was that he had given morphine instead of opium in the pills, and it was beyond question that in his evidence before the coroner Dr. Griffiths had described an opium pill as "a morphia pill," and that had produced a curious effect in the case. If the jury believed that they were opium and not morphine pills, it would vitiate to a large extent the evidence of the two medical experts for the defence. All the doctors who had been called said that, if the pills contained two half-grains of opium, it would not have killed her. On this matter it was important to remember that some time before the inquest Dr. Griffiths wrote on the blue paper, which the jury could peruse, that he prescribed a soothing medicine in the afternoon and later on a tonic and then pills. The latter were described on the paper as "pil. opii, one to be taken at once and the other in an hour." Why Dr. Griffiths should have said "morphia" he (the judge) could not understand.

The jury returned a verdict of "Not guilty."

Poisonings.

The following cases of fatal poisoning have been recorded since our last report :

At Hammersmith, London, W., on November 1, a verdict of "Suicide during temporary insanity" was returned at an inquest on the body of a woman named Brock, who died in hospital after drinking carbolic acid. The coroner remarked that, no matter what restrictions were imposed on the sale of poisons, if persons wanted to commit suicide they would do it in one way or another.

At Maidstone, on November 6, the inquest on the body of Mrs. Hastings was resumed (*C. & D.*, October 16, p. 49). Evidence was given to the effect that the deceased became ill after drinking a mouthful of coffee. The coroner said that the Home Office analysis revealed the presence of arsenic in the organs examined. The inquest was adjourned in order that Dr. Webster, who conducted the analysis, might attend to give evidence.

An inquest was held by the Westminster Coroner, on November 9, on the body of Sarah Rout Wallace (19), late of San Francisco. The evidence showed that, while staying in a London hotel on October 2, the deceased announced her intention of taking a ½-gr. calomel tablet, but subsequently exclaimed that she had taken something else in mistake. Death took place on November 4. Dr. Eugene Niall, Arlington Street, S.W., stated that death was due to mercury-perchloride poisoning. The coroner, who was reported as saying that calomel tablets were black, and the tablet taken by the deceased must have been white, recorded an open verdict.

Student Injured.—A chemistry student named Ellis, attending Keighley Mechanics' Institute, was experimenting on November 4 with some powder purchased from a chemist, when an explosion occurred which has necessitated the amputation of his left hand.

Erratic Publication of Government Orders.—Adjudicating in a Divisional Court on November 3, Mr. Justice McCardie protested against Government Orders coming into force "at the precise moment the official puts his signature to it, and when people concerned with it know nothing about it."

Legal Reports.

Varnish Recipes.—In the Chancery Division, before Mr. Justice Astbury, on November 4, an action was brought by Charles Orme & Co., Ltd., Holywell Lane, Curtain Road, London, against William Samuel Jenkins, Frederick Kitchin Humphrey (trading as W. S. Jenkins & Co.), 92 Bartholomew Road, Kentish Town, and F. J. Baldwin, Wealdstone, for delivery up of any recipes, formulas, order-books, and lists of customers belonging to the plaintiffs, who are manufacturers of polishes, varnishes, etc.; for an injunction restraining defendants Jenkins and Humphrey from using plaintiffs' secret processes of manufacture, the knowledge of which, it was alleged, they acquired while in plaintiffs' employ; and an injunction restraining defendant Baldwin from using plaintiffs' order-books or lists of customers. Defendants denied infringing any of plaintiffs' processes, and said the goods they manufactured were made from recognised trade formulas and not from the recipes belonging to the plaintiffs. Sir Arthur Colefax stated that the plaintiffs were the successors to the old-established firm of Charles Orme & Co., manufacturers of polishes and varnishes, and they had attained a considerable reputation for the goods they sold. Their secret recipes were the invention of Mr. Charles Harrison, senior, who was a partner in the firm. The defendant Jenkins entered plaintiffs' employment as a clerk in 1903, and became in time business manager of the head office, and in the costing work he gained knowledge of plaintiffs' secret processes. Defendant Humphrey was plaintiffs' traveller, and simultaneously they left the plaintiffs' employ in September 1919 and started in business as polish and varnish manufacturers. The following February Baldwin also resigned his position with the plaintiffs and commenced work with Jenkins & Co. Evidence in support of counsel's statements was given by Mr. Charles Harrison, a member of the plaintiff company. For the defence evidence was given on November 5 by Mr. Jenkins, who denied that his firm had ever used any formula, secret or otherwise, belonging to the plaintiffs. The black spirit dye complained of was made solely from spirit black and methylated spirit, and the black leather spirit varnish, which they also manufactured, was composed of spirit black added to methylated spirit, which, after straining, was mixed with mastic solution. Mr. E. J. Parry, B.Sc., F.I.C., analytical chemist, stated that there were exceedingly few secret processes for the manufacture of such things as varnishes or polishes, and where there are such processes little, if any, knowledge of chemistry is required. After further evidence had been called, counsel on both sides consulted in private with his lordship, and on their return into Court Sir Arthur Colefax announced that the parties had come to an understanding. With his lordship's approval the case would be dealt with on these terms: defendants undertook not to make use of any knowledge of any secret recipe learnt by the defendants while in the employment of plaintiffs or of their predecessors, that undertaking not to cover any article the composition of which was common to the trade. Each party would pay their own costs. His Lordship: No order, except that each party will pay their own costs.

Aladdin Trade-Mark.—In the Chancery Division, on November 10, Mr. Justice Sargant heard an application by the Aladdin Products Co., Chicago, that the register of trade-marks should be rectified by the removal of the trade-mark Aladdin registered in Class 47 by the respondents, James Crean & Son, Ltd., soap manufacturers, Liverpool. Mr. Kerly, K.C., appeared for the applicants, and Mr. Hunter Gray, K.C., for the respondents. Mr. Kerly explained that the applicant company, who were manufacturers of dye-soap, had branches in Canada, France, and England, and between January and October 1920 their sale of soap in this country was 4,650 gross. When they applied to the Registrar of Trade-marks for the registration of the word "Aladdin" in the miscellaneous class they were told it ought to be in the soap class; but when they desired to transfer it to that class they were informed that the word was already registered for ordinary soap under the name of James Crean. The applicants persisted in their application on the ground that their soap, being a dyeing soap, was different from the ordinary variety, but they were refused registration. They then appealed to the Board of Trade, but the matter stood over because of facts they ascertained about the Crean trade-mark "Aladdin." They consequently brought that application for the removal of the respondents' trade-mark from the register. Counsel added that when the applicants applied for registration of the word in the dye class they were opposed by the respondents, and that matter also stood over pending the result of the present proceedings. They had ascertained that the word "Aladdin" was first registered as a trade-mark in 1890 by a Liverpool soap company, and in 1897 it was assigned to Messrs. Crosfield, the well-known soap makers. In 1899 it was again assigned to another company, which was wound up in 1907. In 1913 the trade-mark was registered in the name of James Crean, who seemed to have renewed registration from July 1918, and when the motion in that application was brought before the Court it was agreed that he should transfer the registration to the present respondents. Counsel added that the applicants had made inquiries in the trade, and were unable to find any Aladdin soap on the market. Arthur Thos. Long, manager of the applicants' English company, gave evidence to the effect that the average yearly output of the American company was 75,000 gross. The soap was intended to dye articles of wearing apparel such as flannel; and since January, when they began, their sale in this country had been about 5,000 gross. Mr. David Haig, sales manager for the Palmolivine Soap Manufacturing Co., said he knew the respondents as makers of domestic soaps. On behalf of respondents, it was stated that their Aladdin soap was manufactured solely for co-operative societies. At this stage there was a consultation between the parties, and Mr. Kerly announced that they had come to an arrangement which was provisional upon a joint application to register both of the marks, respondents being limited by excluding dye-soaps and applicants to dye-soaps only. If they were unable to carry the registration through, they would be at liberty to resume those proceedings from that point. His lordship assented.

Business Changes.

Mr. A. F. Goode, Ph.C., 220 High Street, Erdington, has acquired the business of Mr. W. Pearson, chemist and druggist, 47 High Street.

Gilbert & Hall, chemists, 15 Commercial Road, Bournemouth, have purchased the business of Williams & Co., chemists, 35 Commercial Road, and have removed to that address.

Mr. R. H. Hands, chemist and druggist, Campden, has acquired the Hunstanton business of Mr. E. Wright, chemist and druggist (who, however, retains his pharmacies at Heacham and Snettisham). Mr. Hands will carry on the business under the existing style of J. W. Bodger & Co.

R. W. Greeff & Co., Thames House, Queen Street Place, London, E.C. 4, have converted their business into a limited company, of which Mr. Alfred John Thompson becomes managing director. Captain E. M. de Greeff (the son of the founder of the business) has joined the Board, as well as Mr. A. E. Munns, Mr. C. Lorleberg, Mr. A. F. Butler, and Mr. P. A. Smith. Mr. E. Arnold has been appointed secretary to the company. The last-mentioned four gentlemen have long managed departments of the business, and will continue to do so. The heads of departments, staff, and general organisation remain unchanged, and the business will be carried on upon the same lines as heretofore.

Olive-oil production in Tunis during 1919 is now finally estimated at 21,433,000 litres. Local prices have recently dropped as a result of the release of large stocks.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

Batemans' (Cash Chemists), Ltd. (P.C.).—Capital, 500*l*. Objects: To take over the business of a drug-store keeper and chemists' sundriesman carried on by A. R. Bateman at 3 High Street, Clapham, S.W. 4.

D. & J. Hill, Ltd. (P.C.).—Capital, 3,000*l*. Objects: To carry on the business of manufacturers of and dealers in appliances for the deaf and of electrical, chemical, photographic, surgical, and scientific apparatus and materials, pharmaceutical, medicinal, chemical, industrial, and other preparations and articles. R.O.: 267 Gray's Inn Road, London, W.C. 1.

R. W. Greeff & Co., Ltd. (P.C.).—Capital, 120,000*l*. in 1*l*. shares (60,000 8 per cent. cumulative preference). Objects: To take over the business of chemical merchants carried on in London and Manchester as "R. W. Greeff & Co.," and to adopt an agreement with R. W. de Greeff. The first directors are: A. J. Thompson, E. M. de Greeff, A. E. Munns, C. Lorleberg, A. F. Butler, and P. Smith.

Henry Robertshaw, Ltd. (P.C.).—Capital, 1,000*l*. Objects: To carry on the business of chemists, druggists, drysalters, oil and colour men, manufacturers of and dealers in pharmaceutical and other preparations and articles, etc. The first directors are: H. Emmott, 361 Colne Road, Burnley, cotton manufacturer; A. Clarkson, 327 Colne Road, Burnley, grocer; and H. Robertshaw, 151 Railway Street, Nelson, chemist and druggist. R.O.: 151 Railway Street, Nelson.

Essences and Synthetics, Ltd. (P.C.).—Capital, 100*l*. Objects: To carry on the business of manufacturers, importers, and exporters of and dealers in pharmaceutical, medicinal, chemical, industrial, and other preparations, essential and synthetic oils, etc. The subscribers (each with one share) are: D. Misell, 39 Fountayne Road, Stoke Newington, N. 16, chemical merchant; and W. R. Smith, Corner House, Berkhampstead Avenue, Wembley, chemical merchant. Solicitors: Coburn & Co., 11 St. Helen's Place, London, E.C.

Lever Brothers, Ltd., are shortly to make an issue of 20 per cent. preferred ordinary shares of 5*s*. each at about 11*s*.

Bandoeng Quinine Factory.—For 1919 a final dividend, amounting to 68.75 florins, is being paid to the holders of ordinary shares, and 82.40 florins to holders of founders' shares.

R. Lane Hall & Co., Ltd., chemical merchants, 1 Steward Street, London, E.—In pursuance of the provisions of the Companies (Consolidation) Act, a largely attended meeting of the creditors of the above was held on November 10 at 186 Bishopsgate, London, E.C. The company had previously passed resolutions in favour of voluntary liquidation, and had appointed Mr. E. Portlock and Mr. J. D. Pattullo to act as joint liquidators. Mr. Pattullo stated that the affairs of the company were somewhat complicated. The company was registered in March 1917 to take over an existing business which had previously been carried on by two gentlemen. It was a private company, with a nominal capital of 5,000*l*. The two vendors, Mr. David Misell and Mr. R. Lane Hall, were each allotted 1,000 shares as fully paid, as part consideration for the assets they transferred. The two vendors were the directors of the company. Subsequently Mr. Lane Hall joined the Army, went to France, and was posted missing, and it was presumed that he had been killed. The books were in a chaotic condition, and had not been completely written up, while the balance sheets were overdue. The balance sheet for 1917 was only completed during the last few months, while the figures for 1918 had just been finished. The resolution for voluntary liquidation was passed on October 22, and at that time an execution creditor for 75*l*. was in possession. On the day the liquidators were appointed another execution for 289*l*. was levied. In addition, the Drug and Chemical Corporation, creditors for 247*l*., had placed a petition on the file. There was some stock on the company's premises, while other stock was at a warehouse, and the warehouseman was a creditor. None of the goods appeared to have been insured. The liquidators had taken measures to protect the assets, and the stock had been collected, listed and insured, and efforts made to secure offers for it. The stock was of a miscellaneous character. The employees of the company had been dismissed, and all expenses cut down. From the outset it was apparent to the liquidators that, in order to avoid a forced realisation, they would have to find about 400*l*., with which to pay off the execution creditors and get possession of the assets. The liquidators, however, were advised that they could not prudently put up the money until the petition for the compulsory winding-up had been dismissed or withdrawn. Negotiations were pending with a view to the petition being withdrawn. The second execution creditor had garnisheed any money lying at the bank, and also a debt owing to the company by the London County Council. In consequence of the condition of the accounts and the delay in the completion of the balance sheets, it was very probable that the directors of the company did not realise the position. Mr. E. Portlock then submitted a statement of affairs, which showed ranking liabilities of 9,708*l*. In addition, there were fully secured creditors for 318*l*., while the bank was set down at 984*l*., but the latter held life policies which more than covered their claim. After allowing 56*l*. for preferential claims, the assets were estimated to realise 912*l*., or a deficiency of 8,796*l*. The assets consisted of investments, estimated at 100*l*.; book debts 4,466*l*., estimated to realise 100*l*.; and claim for repayment of excess profits duty, 769*l*. In addition, there was stock valued at 784*l*., and furniture and fixtures of the book value of 140*l*. These two items, however, were not included in the assets, owing to the executions having been levied. There was no cash in hand or at the bank. The stock included acids, drugs, scents, and soaps, but the goods were very varied, and were in small quantities. The company was carried on at a loss in 1917, but in 1918 a profit was made. Mr. Pattullo mentioned that he had received a letter from a relative of one of the directors, who stated that if the voluntary liquidation with the present liquidators was continued a sum of 900*l*. would be provided for distribution among the creditors, and would be payable as to 500*l*. in four months, 200*l*. in four months, and 200*l*. within six months. Mr. P. Honstoun asked if there was any security in connection with that offer, and Mr. Pattullo replied in the negative. The solicitor to the liquidators stated that the first execution creditor was in an unassailable position, but with regard to the second execution creditor the position was somewhat different. It was desirable to avoid compulsory liquidation, but unless money was found quickly it would be impossible to restrain the sheriff from selling. The representative of the petitioning creditor (the Drug and Chemical Corporation) said that if the compulsory winding-up order was made the second execution would have to be withdrawn while the sale by the sheriff could be stayed. He was told that the company had been interested in other businesses, and that was a matter for inquiry. He added that the object of the compulsory liquidation was to put all the creditors on the same footing. Mr. P. Houstoun gave it as his opinion that if the compulsory proceedings were pursued a winding-up order would be obtained. He was in favour of such proceedings being continued. He failed to understand why two liquidators were appointed to deal with such a small estate. Two or three of the principal creditors gave it as their opinion that the best course to pursue was to agree to the voluntary liquidation being continued, with the present liquidators. Eventually it was decided, on the motion of the representative of the British Dyestuffs Corporation, seconded by Mr. R. Moyle, to confirm the voluntary liquidation of the company with the present liquidators, while a committee of four of the principal creditors were nominated. It was stated that the claims of the four principal creditors aggregated rather more than 7,000*l*.

City of London Public Health Report.

THE recently issued report of the medical officer of health for the City of London (Dr. W. J. Howarth), covering the year 1919, extends to eighty-four folio pages, and constitutes a document of many-sided interest. The account of the search for anthrax-infected shaving-brushes (p. 33) is of unusual importance to traders, especially as the main part of the investigation it records has been carried out during the present year. Up to July 28 over 2,756 dozen such brushes had been returned to Japan, and more than 689 dozen suspected brushes had been destroyed. At the request of traders, a certificate of destruction was issued in respect of each consignment destroyed. The numbers of the patterns found to be infected are 119/146, 1022, 5238, 2592, 1040, 12918, 2641, 801, C65, 066, 073, and 074; and also, according to reports from Glasgow, 2590 and 1736. Dr. Howarth remarks :

I must direct your attention to the fact that I believe that the traders, who have given me every facility in conducting a rather complicated and certainly tiresome investigation, purchased these brushes in good faith. In certain instances the brushes were packed with a printed note to the following effect: "Free from anthrax. The hair in this brush has been distinfected by the Osaka Prefectural Government, and is free from anthrax." One trader also submitted to me an officially sealed and attested certificate of disinfection by the Osaka Prefectural Government. It seemed then to be rather a hardship that any loss incurred as a consequence of this particular trading transaction should fall upon the trader or the City Corporation, or any other Corporation. I discussed the position with the officials of the Japanese Government. . . .

The legal aspect of questions of compulsory disinfection or re-exportation is discussed in the following passage :

The disease being notifiable in London under Section 60 of the Public Health (London) Act, 1891, it would have been possible to certify that the disinfection of these brushes would tend to prevent or check the spread of a dangerous infectious disease. Notice could then have been served upon the owners by the sanitary authority calling upon them to disinfect. In case the owners failed to disinfect or destroy—and it does not seem probable that large quantities of brushes such as these in question would have been destroyed at the simple request of the local authority—the duty would have fallen upon the local authority to carry out the disinfection, in which latter case they would have been responsible for any unnecessary damage and have been required to pay compensation if articles were destroyed by them. To disinfect these brushes satisfactorily meant practically destruction. I found it, therefore, necessary to ask the Sanitary Committee whether I should undertake this disinfection and perhaps render the Corporation liable to compensation, or deal with them otherwise, as by re-exportation. A third alternative was to leave these brushes in the hands of the retailers, at any rate for the present, after having warned them that the consignment was infected, and, therefore, could only be traded in under risk of subsequent legal proceedings. If in these circumstances a trader asks for disinfection, and brings the brushes to the disinfecting station, which the local authority must of necessity provide, there seems to be no requirement under Section 59 for compensation to be paid if the brushes are damaged in this procedure. The question arises in this connection whether any compensation would be payable, since one may reasonably ask, "What is the value of a shaving-brush infected with anthrax"? Surely nil, for no one would be willing to purchase such a brush. The only difficulty is that it could not be proved that each separate brush was infected. Difficulties in the way of requiring re-exportation of brushes to Japan also arose, inasmuch as neither the importers nor intermediate traders would in certain instances accept the return of the brushes, and that, of course, was necessary before re-exportation could be effected.

The other matters in the report relating to the drug-trade may be briefly summarised. Of the samples of drugs taken for analysis, thirteen informal (out of ninety-one) and five formal (out of six) were found to be adulterated. All of these five formal samples consisted of calomel ointment, the knowledge of the defective condition of which had been obtained in the course of investigating the informal samples. Prosecutions resulting in fines followed in three instances. A prosecution under the Profiteering Act (*C. & D.*, I., 1920, p. 40) is also mentioned. The number of new patients admitted to treatment at the venereal diseases clinic of the City was 861; the number of specimens examined in the laboratory of the institution was 2,485. A table on p. 32 of the report shows the composition of samples of rain-water taken month by month in the City, together with that of samples taken, for comparison, on the Thames Embankment. The total solids in the rain-water of the City are in most cases lower—and, in some, much lower—than those in that collected on the Embankment.

Festivities.

West Ham Pharmacists' Whist-drive.

THE West Ham Association of Pharmacists had a whist-drive on October 28. At the close of play Mrs. Potter distributed the prizes, which were nine in number.

Drug-Union Socials.

THE London Retail Section of the National Drug and Chemical Union held a successful concert and dance at Anderton's Hotel on November 4; Mr. B. Wathen officiated as M.C.—A large turnout of members and friends of the union was present at the People's Palace, Mile End Road, London, E., on November 8, at a social evening held under the auspices of the London Divisional Council. A capital programme of songs, dances, etc., had been drawn up by Mr. A. J. Crawley (Vice-President). The musical arrangements were in the hands of Mr. H. Crawley, while Mr. C. Crawley performed the duties of M.C. During the evening Councillor Fred Hawkins, organising secretary, made an appeal on behalf of the workers of Lysol, Ltd., who had been locked out for joining the union, and a generous response followed.

Bankruptcy Reports.

Re Samuel Diamant, 51 Castellain Mansions, Elgin Avenue, London, W.—The creditors under this failure met at the London Bankruptcy Court on November 5 when a resolution was passed for the appointment of Mr. J. B. Wandlass, accountant, 13 Old Jewry Chambers, E.C., as trustee of the debtor's estate. (See *C. & D.*, October 30, p. 72.)

Re Albert Rogers, drug-store proprietor, 36 High Street, Normanton.—The public examination took place at Wakefield Bankruptcy Court on November 4. The liabilities expected to rank for dividend were stated at 645*l.*, and the deficiency at 370*l.* The debtor said he began business fourteen years ago with a capital of 150*l.*, and trade had been good until eighteen months ago, though he admitted that he had had difficulties during the war. Whilst serving as a special constable his books had been neglected, and had never been brought properly up to date since. The examination was closed. The following are among the creditors : Blundell, Spence & Co., Ltd., Hull, 20*l.*; Brook, Parker & Co., Ltd., Bradford, 21*l.*; Goodall, Backhouse & Co., Leeds, 70*l.*; Grossmith, J., & Sons, Ltd., London, 11*l.*; Hirst, Brooke & Hirst, Ltd., Leeds, 45*l.*; Lofthouse & Saltmer, Ltd., Hull, 35*l.*; Raimes & Co., York, 28*l.*; Sissons, Bros. & Co., Ltd., Hull, 66*l.*; Ayrton, Saunders & Co., Ltd., Liverpool, 10*l.*

POISONING BY DENATURED ALCOHOL.—As a result of drinking alcohol which, according to a "Daily Chronicle" correspondent, had been denatured with chloro-acetone, a compound used in gas warfare, seven employés in a United States arsenal have died.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

MINISTRY OF HEALTH (MISCELLANEOUS PROVISIONS) BILL.

The second reading of this Bill was moved in the House of Commons on November 4 and 9 by the Minister of Health. Criticism was centred mainly on Clause 11, which gives power to county councils to provide hospitals and ambulances. Clause 12, dealing with the sale of clinical thermometers, was not referred to in any way.

INDIAN MONAZITE.

Mr. G. Terrell on November 8 asked the President of the Board of Trade if he is aware that natural monazite sand from India is supplied to German manufacturers as raw material for the manufacture of incandescent gas mantles and ultimately that such gas mantles are exported to this country, and that in consequence of the collapsed exchange it is impossible for British manufacturers to compete; that one British firm has discharged its workpeople and is confining its activities to the sale of German-made mantles; and what course he proposes to take in the matter?

Sir R. Horne replied: I have no information as to the extent to which German manufacturers are at present obtaining supplies of natural monazite sand from India, but I am having inquiries made. The whole question of collapsed exchanges, which is one of very great difficulty, is receiving the earnest attention of the Government.

MEDICAL RECORD CARDS.

Brigadier-General Colvin on November 10 asked the Minister of Health if he will state the cost involved in preparing, printing, and issuing to Insurance committees the new medical record cards to be kept by Insurance practitioners after January 1, 1921; the estimated expenditure of Insurance committees for writing the record cards and supplying the cards to the practitioners; and the estimated annual expenditure of carrying out the proposed procedure in the transmission of record cards in the cases of persons removing from one district to another.

Dr. Addison replied: The estimated initial outlay for England and Wales on the new permanent medical records is, under the first part of the question, 38,000*l.*, and, under the second part, 19,000*l.* With regard to the third part, it is not possible to give a reliable estimate of the yearly cost of transmission of the record cards, but it should fall considerably short of the annual expenditure on the old medical record cards and doctors' register cards, both of which will be replaced by the new permanent medical record card.

GERMAN DYES.

Mr. Doyle on November 8 asked the President of the Board of Trade whether he is aware that German dyestuffs are imported into the United Kingdom, not only on direct registration, but also through countries whose frontiers are contiguous with those of Germany; and whether he can state or estimate the total quantity of synthetic dyestuffs of German origin imported into the United Kingdom in the first nine months of the year?

Sir R. Horne replied: I am aware that a certain proportion of the exports of German dyestuffs is through Belgium and Holland, and it may be assumed for practical purposes that the whole of the exports of dyestuffs consigned to the United Kingdom from these two countries is of German origin. The total quantity of synthetic dyestuffs and intermediate products imported into the United Kingdom from Holland, Belgium, and Germany in the first nine months of the year was 2,986 tons. A small proportion of the dyestuffs consigned from Switzerland to this country is also probably of German origin, but it is not possible to form any reliable estimate of the amount. Of the amount referred to, 877 tons is in respect of reparation supplies from Germany.

PROTECTING "KEY" INDUSTRIES.

At a meeting of the House of Commons Commercial Committee on November 9, Mr. W. J. U. Woolcock, M.P., referred to the necessity in the national interests of the establishment on a firm basis in this country of the aniline-dye industry. After dealing in detail with the reasons, Mr. Woolcock put forward his suggestions. He said:

Two things are essential: (1) that the Government should take a wider view of their responsibilities and encourage the co-operation of all who can assist; and (2) that the Government should at once (next year will be too late) introduce a Bill granting some assistance to the industry for a few years. Now the question is, "What form shall this assistance take?" This problem has engaged, for many months, the attention of those best fitted to solve it. There are five different ways in which it might be done; let us examine them for a moment:

1. TARIFF.—This has only to be stated to be rejected at once. The absurdity of the amount necessary to allow for the difference in the rate of exchange alone kills this method with ridicule.

2. SUBSIDY.—Most Government subsidies have been withdrawn, and the enervating effect of sibsidies is too well known to admit of their being granted on a large scale in the case of the dye industry.

3. STATE PURCHASE AND SALE BUREAU.—The essence of this method is that it should be made compulsory that both the purchase and sale of imported dyes should be made through a Central Bureau, in which the Government should be interested together with men of commercial and technical knowledge. This method overcomes some of the difficulties inherent in other proposals, but introduces additional difficulties of its own. It would necessitate the setting up of a special and rather expensive organisation. This is to be deplored, but what really kills the idea is that we have not at the moment the experts, who would have to be independent of any particular firm, and who would be required to staff the Bureau.

4. LICENSING PLUS A TARIFF FEE.—The idea here is that an importer should be able to obtain a licence as of right (thereby eliminating the uncertainty of the ordinary system of licensing), but that he should be charged a subscription fee, which would vary with each article, and which would be based on the difference in price between the foreign-made article and that of British manufacture. The chief attraction of this method is the removal of the uncertainty whether a licence will be granted or not. In effect it is an easily varied tariff under another name. It has all the disadvantages of an ordinary tariff, and one more. I cannot imagine the House of Commons entrusting any body of persons other than itself with the right to fix and vary a tariff.

5. LICENSING.—Lord Emmott has been quoted as saying that he knew from his experience in the War Trade Department that it is impossible to conduct a licensing system fairly. As recently carried out, it sometimes results in delays, and is apt to be irritating to the importer and user, but it does not entail some of the disadvantages which are common to other forms of protection. It is, in fact, the least objectionable of all the forms of assistance which can be given to the dye industry, and if reintroduced with one essential modification would meet the case. Let us bear clearly in mind what is the object we have in view. It is not to prohibit the import of foreign dyes merely because they are foreign or to enable British manufacturers to carry on their business without fear of competition. It is to encourage them to spend money on plant and on research work and then to assist them so to co-operate that in a short time they can stand alone and fight their own battles. I suggest, therefore, that you cannot do better than adopt a system of prohibition except under licence, with this important modification, that it is understood that licences for any particular dye which is needed should be freely granted as of right, unless and until the British manufacturer has shown cause why the particular dye should not be admitted in unrestricted quantities. The meeting passed no resolution, and it is stated that great diversity of opinion prevailed among members as to the best method of dealing with the question.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on the October Analytical Exercise.

The powder distributed to students on October 12 contained three parts by weight of lead hydroxycarbonate, one part of bismuth carbonate, and one part of zinc hydroxycarbonate. The calculated composition of such a mixture is :

Pb	48.1
Bi	16.1
Zn	11.5
CO_3	15.1
O	0.9
OH	7.3
H_2O	1.0
	100.0

The powder also contained, as impurities, a distinct trace of manganese and a faint trace of chloride. Samples of the powder were distributed to twenty-six students, and nine reports were submitted in response. The presence of the carbonic-acid radical was reported in every case, but the following failures occurred in the detection of the metallic radicals : Lead, 3; bismuth, 2; zinc, 5. The quantity of water evolved when the powder was heated in a dry tube was comparatively small, and its evolution was almost uniformly overlooked.

The analysis of this mixture was submitted to students as a comparatively simple exercise preparatory to the opening of the analytical tournament this month, but presenting a standard of difficulty slightly lower than that of most of the tournament exercises. It was not without certain features, however, which are ever-recurring stumbling-blocks to junior students, and a careful study of these features may be specially recommended to such of these students as propose to participate in the tournament.

That lead and bismuth somewhat closely resemble each other in several of their reactions is a fact which is soon recognised by the merest beginner, and it is one which suggests that close attention should be paid to the examination of solutions in which both metals may be present side by side. In the present analysis there was a possibility of some of the bismuth being associated, as oxychloride, with the lead chloride which separated, on cooling, from the original solution of the powder in hot dilute hydrochloric acid, if this solution was obtained by employing little more than the minimum quantity of acid requisite to effect solution and if the acid was specially dilute. On the other hand, some lead was certain to be present, as sulphide, along with any bismuth sulphide precipitated in the copper group. The precipitates in both groups accordingly required careful treatment, and this was not accorded to them by all our correspondents, with the result that one or other of the two metals was missed in several instances. Entire failure to obtain any precipitate with hydrogen sulphide, owing to a too great concentration of hydrochloric acid preventing the precipitation of either lead sulphide or bismuth sulphide, was not reported on this occasion; but such failure sometimes occurs, and it requires to be guarded against by cooling and copiously diluting at least a portion of the solution which is to be saturated with hydrogen sulphide, the whole of the solution being similarly treated if found necessary.

The usual text-book methods of separation and recognition of lead and bismuth in the solution prepared from the hydrogen sulphide precipitate are simple and effective, but they must be employed (as analytical operations should always be) with due attention to details, in order to make them quite successful.

Some correspondents endeavoured to draw definite conclusions from the darkening in colour which the powder underwent when heated, but these were not always correct, since change of colour took place in the cases of all three of the constituent carbonates.

The trace of manganese was easily detected when the powder was examined by means of the most delicate tests. The latter were not applied, however, except by a single student, and in the systematic analysis for bases the presence of manganese was easily overlooked.

As in many other cases, impure sodium carbonate, used in preparing the solution to be tested for acid radicals, was apparently responsible for numerous reports of chloride and sulphate, whereas the powder was almost entirely free from both. This is an appropriate time to procure, if possible, a supply of sodium carbonate really free from these impurities.

Prizes.

The First Prize for the best analysis has been awarded to :

John R. Sharp, Parkside, 65 Wantage Road, Northampton.

The Second Prize has been awarded to :

Isa Shephard, c/o Jolly, 87 Gray Street, Broughty Ferry.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

Marks Awarded for Analyses.

J. R. Sharp (1st prize)	92	Parex	64
Isa Shephard (2nd prize) ...	87	Brogni	58
Cerussite	74	Diazo	42
Mait	66	Triticum ...	40
		Sinapis	38

To Correspondents.

John R. Sharp.—You will probably find it both instructive and interesting to make some experiments touching the solubility of lead sulphate in boiling dilute hydrochloric acid, since the sulphate dissolves distinctly more readily than you appear to suppose.

Isa Shephard.—The fact that the original powder dissolved completely in hot concentrated hydrochloric acid was not a proof of the absence of silver. Silver chloride dissolves fairly readily when boiled with the concentrated acid, and is precipitated on cooling and diluting the solution. Test this experimentally. Careful testing failed to confirm the presence of the nitric-acid radical.

Cerussite.—You do not give any information regarding the testing for metals of the zinc group, and you leave the question of the presence of zinc, suggested by a single dry-way test, unsettled. Ammonium hydrosulphide, added at the appropriate stage, should have given a precipitate of zinc sulphide in moderate quantity.

Mait.—You report a number of constituents which were not actually present. The flame coloration which you attributed to potassium was probably due mainly to lead, and the supposed mercury reactions may have been due to bismuth. The well-marked reactions for a chloride and a sulphate were almost certainly yielded by impurities in the sodium carbonate you used. Note that a solution of calcium hydroxide exposed to air, overnight, is quite certain to show some precipitate of calcium carbonate, due to atmospheric carbon dioxide.

Parex.—The powder did not contain an acetate, and attempts to obtain the results upon which you based your conclusion that an acetate was present were not successful.

Brogni.—Since carbon dioxide was the only gas evolved when the powder was heated with sulphuric acid, it is difficult to understand how you came to report this gas as inflammable, unless you wished to make the evidence furnished by the test conform to the supposed presence of an oxalate.

Diazo.—You carried out a great deal of needless work in consequence of your erroneous conclusion that the

powder contained the phosphoric-acid radical. It is possible tbat you mistook the pale yellow colour of molybdic anhydride for the canary yellow of ammonium phospho-molybdate. Molybdic anhydride is not infrequently precipitated when solutions of ammonium molybdate, unsuitably prepared as reagents, are boiled. You cannot expect to obtain indications of any value by testing for a carbonate in the solution obtained by boiling the powder with sodium carbonate.

Triticum and Sinapis.—In view of your failing to detect either lead or zinc and of your reporting as present numerous constituents which were absent, you are strongly recommended to prepare for yourselves mixtures in imitation of the powder, and to carry out the analysis of these in such a manner as to ascertain, if possible, how you went astray.

Deaths.

Harvey.—At 32 Bramham Gardens, South Kensington, London, S.W. 5, on November 9, Mary (Minnie), wife of Mr. Ralph K. Harvey, a director of The British Drug Houses, Ltd.

Hunter.—At Roseville, Castleblaney, co. Monaghan, on November 2, Mr. Edward Hunter, retired chemist and druggist, aged eighty-nine. Mr. Hunter spent almost all his life in Castleblaney. On retiring to his farm at Roseville, he sold his business to the late Mr. John Leavy, R.D. The funeral took place at Castleblaney Parish Church on November 4.

James.—At Sketty, Swansea, on November 4, Mr. Alfred Watkin James, chemist and druggist, aged eighty-eight. Mr. James, who established himself in Wales forty-seven years ago, was widely esteemed in his town and district. He was a member of the Swansea and West Glamorgan Chemists' Association and of the Prince of Wales Lodge of Freemasons. In his early days he had ten years' experience in Canada and the United States. Mr. James, who passed away in the early morning of his diamond wedding-day, is survived by a widow and seven children.

Mitchell.—At "Fawley," Wilfred Road, Boscombe, Bournemouth, on November 3, of pneumonia, Mr. Herbert George Mitchell, Ph.C., 149 Christchurch Road, aged forty. Mr. Mitchell, who was the son of the late Alderman George Mitchell, Boscombe, carried on business in Harrogate prior to returning to his native town in 1911. He was a member of two local golf clubs and of the Rowena Lodge of Freemasons. He leaves a widow and two children.

Moulson.—At Bradford, on November 8, suddenly, Mr. James Ogilvie Moulson, retired chemist and druggist, 33 Arncliffe Terrace, aged fifty-four. (See p. 51.)

Petri.—At 34 Coleherne Road, South Kensington, London, S.W., on November 4, after a short illness, Mr. Friedrich (Fritz) August Petri, aged sixty. The late Mr. Petri was senior partner in the firm of Petri Bros., chemical merchants, 39 Lime Street, London, E.C. 3, and came to London from Offenbach, together with his brother, the late Mr. Rudolph Petri, over forty years ago. After a short period with F. W. Berk & Co. they established themselves in business at 39 Lime Street, E.C. Mr. Petri, who was a bachelor, was well known in the chemical trade and was a regular attendant on 'Change.

Waterhouse.—In London, on November 4, as the result of a street accident, Mr. Ernest Waterhouse, chemist and druggist, 186 Mare Street, E. 8, aged thirty. (See p. 51.) Mr. Waterhouse, who qualified in 1911, took over his business from the late Mr. Percy Brown, chemist and druggist, only a few months ago. He had previously been in business in Exmouth Street, E.C., and Rosslyn Hill, N.W. Much sympathy is felt for his widow and child.

White.—At Pendleton House, Spencer Place, Leeds, on November 8, Mr. Fred Arthur White, senior partner of J. F. White & Co., manufacturing chemists, Lovington Street, Benson Street, aged sixty-three. Mr. White was a well-known business man in Leeds, and was highly esteemed by a large circle of friends. He served for three years on the Leeds Board of Guardians. A widow, two sons, and a daughter survive him.

Williams.—At Barmouth, on November 5, Mr. Humphrey Wynne Williams, chemist and druggist and dentist, High Street. Mr. Williams was in business before August 1, 1868. He was a deacon of the local Baptist church for forty-three years, and served for some time on the Barmouth urban district council.

Personalities.

Sir William Veno has been admitted a member of the Society of Knights Bachelor.

Mr. A. E. Hobbs, J.P., Ph.C., Tunbridge Wells, has been elected a Vice-President of the Nevill Golf Club.

Dr. Benjamin Moore, professor of bio-chemistry in the University of Oxford, received tbe degree of Master of Arts of the University on November 9.

Alderman G. Claridge Druce, LL.D., J.P., Ph.C., Oxford, and Mr. J. Stainer, chemist and druggist, Folkestone, have been appointed to the local judicial authority under the Lunacy Acts in their respective districts.

Mr. Willis Jones, managing director of John Bevan & Son, Ltd., manufacturing chemists, Llanelly, was foreman of the jury at the trial of Harold Greenwood, solicitor, Kidwelly, referred to on p. 53.

At a recent whist-drive held by the Palmer's Green and Southgate Ratepayers' Association, Sir William Glyn-Jones addressed the Association during the interval, and later on Lady Glyn-Jones presented the prizes.

Mr. and Mrs. J. J. Wilson, 37 Falkland Road, Egremont, Cheshire, recently celebrated their golden wedding. Mr. Wilson carried on business as a chemist and druggist at Egremont, Cumberland, till last year, when he disposed of it and retired.

Mr. Geoffrey Webb, son of Mr. E. Alfred Webb, deputy chairman of Evans Sons Lescher & Webb, Ltd., has secured the second prize, value 500*l.*, in the village sign competition recently organised by the "Daily Mail." A prize of 50*l.* has been won in the same competition by Mr. Christopher Webb, brother of Mr. Geoffrey Webb.

Mr. Geoffrey L. M. Mander (Mander Bros., chemical-colour manufacturers, St. John Street), Wolverhampton, after being a member of the local town council for nine years, has intimated his resignation on account of pressure of other duties. It is understood that Miss Daisy Mander, daughter of Sir Charles Mander, will contest the vacancy thus created.

The following mayoral elections (on November 9) are of interest to the drug-trade: Alderman W. A. Cadbury, re-elected Lord Mayor of Birmingham; Alderman J. R. Birkett, Ph.C., Mayor of Morecambe for the seventh time; Mr. W. F. Charles, chemist and druggist (Zenobia, Ltd.), Mayor of Loughborough; Mr. E. Jenkins, chemist and druggist, Mayor of Faversham.

Mr. L. P. Sharpe (Sharpe's Drug Stores, High Street, Thornton Heath) was, while crossing Shaftesbury Avenue, London, W., on November 4, knocked down by the motor-car which, as recorded on p. 51 of this issue, fatally injured Mr. Ernest Waterhouse, a Hackney pharmacist, at the same time. Mr. Sharpe was taken to Charing Cross Hospital for treatment.

Professor C. S. Sherrington, the President-elect of the Royal Society, is the Waynflete professor of physiology in the University of Oxford, and was formerly professor of physiology in the University of Liverpool and Fullerian professor of physiology at the Royal Institution. He is an Honorary Fellow of Gonville and Caius College, Cambridge; a Fellow of Magdalen College, Oxford; an Honorary D.Sc. of Dublin and Sheffield, and an Honorary LL.D. of Glasgow, Toronto, and Harvard. Professor Sherrington was elected F.R.S. in 1893, and was awarded a Royal Medal in 1905 for his researches on the central nervous system.

Trade Notes.

COOK'S GIFT CASKETS.—Edward Cook & Co., Ltd., soap-makers, Bow, London, E. 3, deal in their advertisement with perfume and soap caskets suitable for Christmas presents.

MORNY PRODUCTS.—Morny Frères, Ltd., 6 New Burlington Street, London, W. 1, give particulars of some of the Morny perfumes and toilet articles which find a ready sale at Christmas.

"AYRTON'S SUPPLEMENT," brought out by Ayrton, Saunders & Co., Ltd., Liverpool, deals in the Winter Number with goods for winter sale. It is attractively illustrated and produced.

SAFETY-RAZOR BLADES.—The Graham Lambert Manufacturing Co., Ltd., Nottingham Road, Leicester, offer the Lambert safety-razor blades at 4*s.* per dozen. Chemists are asked to send for particulars of the Lambert safety-razor outfits.

THE CHESEBROUGH MANUFACTURING CO., 42 Holborn Viaduct, London, E.C. 1, have produced a new showcard for their well-known vaseline-camphor ice. The card is 10 by 12 in., and is printed in colours. It will be sent to chemists on application.

FORMAMINT TABLETS.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, send us a sample bottle of Formamint tablets, which they describe in their advertisement in this issue. The bottles of tablets are stamped ready for sale.

"DUDLEY'S MONTHLY," published by Dudley & Co., 451 Holloway Road, London, N. 7, gives illustrations and prices of numerous window slips and window-dressing conveniences, many of which are especially adapted for the Christmas decoration of shop windows.

MR. ALEXR. H. PICKERING, 85-88 The Minories, Tower Hill, London, E. 1, has been appointed sole agent for the United Kingdom for the Societeit voor Chemische Industrie, "Katwijk" (Holland), manufacturers of theobromine and salts and caffeine and salts.

DENTALOS COMPETITION.—Particulars regarding a monthly prize competition for chemists are given in the advertisement of the Dentalos Co., 22 Charterhouse Square, London, E.C. 1. The idea of the competition is to get the retailer to take increased interest in Dentalos.

SOLIDIFIED PREPARATIONS.—Mr. C. A. Cofman-Nicoresti calls attention to the patents he holds for the manufacture of solid lysol (No. 118,667); soliment (No. 18,060, of 1915); solidified smelling-salts and fumigators (No. 112,061); and solidified iodine, phenol, etc. (No. 105,949). Soliment is a solid liniment which is manufactured by the Solidol Co., 317 Lillie Road, Fulham, London, S.W. 6.

PICTURE POSTCARDS.—Waugh & Co., Ltd., 54 New Park Street, Leeds, who are advertising pictorial postcards in this issue, have sent for our inspection a copy of the counter album referred to in their announcement. It is a good selection, most of the cards being in colour, and there is a fine variety, so that all tastes can be satisfied. Pretty faces form the central feature of most of the cards.

ALMANACKS FOR PRESENTATION.—We have received from Cassell & Co., Ltd., La Belle Sauvage, London, E.C. 4, specimens of the book almanacks they are advertising in this issue to chemists for presentation purposes. The almanacks are well got up, full of illustrations, and contain interesting reading. A special offer to supply 1,000, with chemist's name, etc., on front page of cover, for 4*l.* is worth considering. Specimens of the books can be had upon application.

STAFFORD ALLEN & SONS, LTD., Cowper Street and City Road, London, E.C. 2, have sent us a specimen of a wall calendar (8½ in. by 19 in.), which they are issuing, together with a dainty notebook bound in celluloid, for the year 1921. Above the tear-off portion of the calendar there is a print in colours, giving a view of part of the City of London as seen from some high structure south of the Thames. This is the first 1921 calendar that has reached us, and it sets a standard of taste that will be hard to equal.

ANGLO-AMERICAN TRADE.—The American Chamber of Commerce in London, 8 Waterloo Place, Pall Mall, London, S.W. 1, which was formed to promote a better understanding and closer relations between the United States and the United Kingdom, has done much good work in this direction. The year-book which has just been issued sets out at length the aims and activities, together with the by-laws and names of the active and associate members. The year-book gives the names, addresses, and business classifications of over one thousand American and British firms interested in developing business between the two countries.

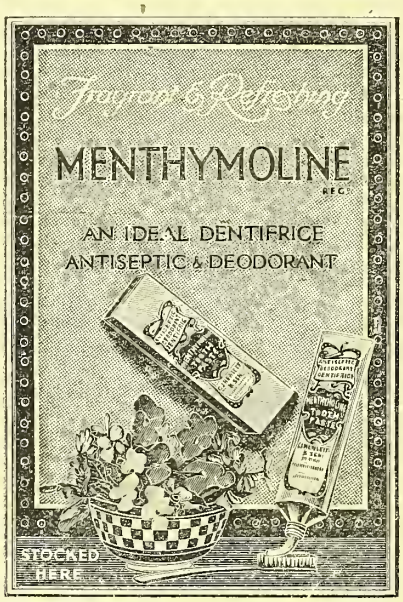
DECORATED TINWARE.—We have before us as we write a selection of tin boxes, in various sizes and decorated in many colours, that have been produced by the Stamping and Press Tool Co., Ltd., Oaklands Road, Cricklewood, London, N.W. 2. In view of the universal demand for tin containers, it is interesting to know that houses such as this are once more in a position to supply direct to the consumer without delay any size of box, and also to execute any design on the tins. The points brought before us by this company are that they can supply on the lowest possible terms, owing to the high state of efficiency in which their factory is working. The boxes are packed in cardboard boxes of one gross, and are delivered direct to the consumer in each case. Moreover, the company guarantee that the lids are perfect fitting—a rather important matter—and they are able to carry out any design selected by the customer, or would submit suggestions regarding new designs if necessary. Besides ordinary tin containers, the company make screw caps in any size or shape, and one of their special lines is a tin pill-box.

A STRIKING SHOWROOM.—W. H. Calnan & Co., 30-32 Ludgate Hill, London, E.C. 4, have induced Paul Poiret's decoration department in London to design a new showroom in their offices. The result is entirely charming; and, although one of our representatives, when calling there the other day, was assured that a carpet and the newest thing in stoves were "to follow," the evidence of M. Poiret's artistry, from single tablets of soap to painted chairs, was convincing. The mention of soap recalls the fact that there was a *chic* line consisting of four triangular pieces in a box; and it really seems desirable that pharmacists who send ladies to leave orders at 30-32 Ludgate Hill should place definite limits to the amount to be purchased. Seriously, however, the showroom is well worth a visit; the novelties, such as the "Rosine" eau de Cologne, in square bottles painted with holly and mistletoe, are admirable in their ingenuity. The amber-coloured De Lazy eau de Cologne, made from an old Florentine recipe, has a distinctive and unconventional bouquet that, in a more leisurely age, would have evoked reams of controversy; it is issued in 80-per-cent. and also in 70-per-cent. alcoholic strength. The Varrel series of perfumes makes a distinctive appeal on a smaller scale than the creation of Rosine, and supplies a definite want. It is of interest to add that Messrs. Calnan have taken up the London agency for the counter-stands of A. F. Corbett & Co., Harborne, Birmingham.

ELCO BRAND PRODUCTS.—Our readers will have noticed in our last issue the announcement regarding the new Elco goods which Evans Sons Lescher & Webb, Ltd., are placing on the market, and which are further referred to in the company's advertisement in this number. There are thirty distinctive toilet and medicinal preparations in the series, and all are produced with a freshness of style which is highly commendable. We have examined representative articles of the Elco products. These comprise "known, admitted, and approved remedies" and a variety of toilet preparations. The outer cartons are printed in colour on a white background, while the judicious use of cameos of flowers, etc., on the cartons has a very pleasing effect. The counter cases, to hold half-a-dozen or a dozen of particular articles, are printed and ornamented in the same style as the cartons. These

designs are by Mr. Christopher Webb, who recently won a prize in the "Daily Mail" village-sign competition. Among the products are cod-liver oil emulsion, compound syrup of figs, family cough-syrup, household embrocation, chilblain tablets, cold-cure tablets, beauty cream, witch hazel foam, vanishing cream, dental foam, borated dusting powder, bay rum and cantharidine hairwash, and solid brilliantine. The rate of profit shows an average of 70 per cent. on cost, but if chemists take advantage of a special offer of 5*l.* lots an extra discount of 5 per cent. increases the profit to 80 per cent. on cost. A liberal quantity of advertising matter is supplied with all orders, a well-produced booklet, "Tested Aids to Health and Beauty," being specially attractive.

Menthymoline Toothpaste.—The illustration herewith gives an idea of the new showcard which C. J. Hewlett & Son, Ltd., 35 to 42 Curtain Street, London, E.C. 2,



are issuing to advertise Menthymoline toothpaste. The showcard is in colours, with a terra-cotta red ground. Attached to the card is a carton containing a tube of the dentifrice.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(*From "The Trade-marks Journal," October 13, 1920.*)

"Liquenna"; for hair-tinting preparations (48). By F. W. Posnett, 15 Ridley Road, Harlesden, N.W. 10. 400,800.

"Cucumel"; for toilet preparations (48). By T. Christy & Co., 4-12 Old Swan Lane, London, E.C. 4. 405,773.

"Karpaza"; for all goods (48). By Dawson's (Chemists), Ltd., 257 High Street, Ponder's End, Middlesex. 406,522.

(*From "The Trade-marks Journal," October 20, 1920.*)

"Bitumail" and "Bituflux"; for all goods (1). By Bitulac, Ltd., 17 Sandhills, Newcastle-on-Tyne. 406,304/305. (Associated.)

"Kilrattine"; for adhesive vermin destroyers (2). By the Richardson Printing Ink Co., Ltd., Askew Road, Gateshead-on-Tyne. 405,154.

"Germolene"; for chemicals (2). By Mary Veno, "Racehill," Dunham Road, Bowdon, Cheshire. 405,775.

"Pedora"; for chemicals (2). By C. S. Saunder, 30 Rivercourt Road, Ravenscourt Park, London, W. 6. 406,659.

"Urosaline Brand a Medicine"; for a medicine (3). By W. H. Gordon, 24 Pall Mall, London, S.W. 1. 400,104.

"Green Light"; for throat and chest lozenges, etc. (3). By E. M. Mellor, 32 Market Place, Uttoxeter. 406,130.

"Murol"; for oils (4). By F. Boehm, Ltd., 15-17 Jewry Street, London, E.C. 3. 403,719.

"Milketa"; for food substances (42). By J. E. Garratt, 96 Southwark Street, London, S.E. 1. 403,705. (Associated.)

"Ovodyne"; for food substances (42). By Société A. Peyronix & Cie., 8bis, Rue Turbigo, Paris. 405,223.

"A Sunny Hour" and "Nacrayon"; for perfumery, etc. (48). By the Standard Tablet Co., Ltd., Hove, Sussex. 400,615; 407,146.

"Paloral"; for dentifrices, etc. (48). By W. E. Powell & Co., 3 and 5 Frith Road, Croydon. 406,360.

"Iron Duke"; for tooth and hair brushes (50). By the United Drug Co., 114 Old Hall Street, Liverpool. 404,380.

"Velva"; for artificial pumice blocks (50). By Ormside Mills, Ltd., 59 and 60 Chancery Lane, London, W.C. 2. 406,781.

(*From "The Trade-marks Journal," October 27, 1920.*)

"Stella" and device of aeroplane; for coal-tar dyestuffs (1). By J. B. & W. R. Sharp, Ltd., Blackburn Road, Edenfield, Lancs. 403,643. (Associated.)

"Indevorad"; for chemicals (1) and (2), medicinal chemicals (3), food substances (42), mineral waters, etc. (44), goods (47), and for perfumery, etc. (48). By Murphy & Son, Ltd., "The Cedars," Sheen Lane, Mortlake, S.W. 14. 406,088/089/090/094/096/098/099. (Associated.)

"Drykos"; for chemicals (1). By Purimachos, Ltd., 1 Woodbury Lane, Clifton, Bristol. 406,799.

"Boh-no"; for disinfectants, etc. (2). By Bono Products Corporation, 1270 Broadway, New York, U.S.A. 403,391.

"Wasp"; for flypapers, etc. (2). By F. W. Hampshire & Co., Ltd., Full Street, Derby. B 405,935.

"Kynora"; for a tonic medicine (3). By Lyndwood & Co., 37 Red Lion Street, High Holborn, London, W.C. 1. 404,446.

"Enlouwa Brand Ointment"; for a salve or ointment (3). By H. L. Watson, 13 Neptune Street, Kingston-upon-Hull. 406,850.

"Confex"; for food substances (42). By Stevenson & Howell, Ltd., 95A Southwark Street, London, S.E. 1. 406,147. (Associated.)

"Stymol"; for perfumery, etc. (48). By Dearborn, Ltd., 37 Gray's Inn Road, London, W.C. 1. 405,654. (Associated.)

"Mavis" and "Mai d'Or"; for toilet preparations (48). By V. Vivaudou, Inc., 418 West 25th Street, New York, U.S.A. 400,178. (Associated.) 407,093.

(*From "The Trade-marks Journal," November 3, 1920.*)

"Benzonite"; for naphthalene products for use with petrol (1). By Railtons, Ltd., 165 Shaftesbury Avenue, London, W.C. 1. 406,985.

"Perlol"; for ointments, etc. (3). By W. B. Cartwright, Ltd., Mount Vernon Road, Larkfield, Rawdon, near Leeds. 406,558.

"Zemoza"; for all goods (3). By Affleck & Ormiston, 68 Bath Street, Glasgow. 406,698.

"Pedlite"; for all goods (8). By R. M. Wright, 176 Franklin Road, King's Norton, Birmingham. 406,027. (Associated.)

"Ferolite"; for surgical instruments, etc. (11). By Ferolite, Ltd., 2 Kirtling Street, Battersea, London, S.W. 8. 406,600.

"Chrysanth Brilliantine (de Luxe)," etc., with ornamental device; for toilet dressings (48). By J. J. Denton, Ltd., 7 Williamson Square, Liverpool. B. 403,943.

"Keenolia"; for perfumery, etc. (48). By the Casson Chemical Co., Ltd., 23 Newton Road, Westbourne Grove, London, W. 2. 404,149. (Associated.)

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

B/811. Dobbs' asthma cure
B/311. Brown's divorlich (or dorowich) hair pomade
E/911. Santo-phorsin
M/811. Wolverine
M/1011. Ideal ear caps.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C. 4

Cremogen paste, B/311
Flower's labelling, corking, and bottling machines, S/811
Icdothyrine, S/811
Melba toilet preparations, S/211
Poro-plastic felt, S/411

Observations and Reflections.

By Xrayser II.

The Chemists' and Druggists' Trade Association, which grew out of the Trade Conference organised by Southall Brothers & Barclay in the July of 1876, ran a useful and for a while a glorious course, some of its earlier triumphs in the law courts being really epoch-making so far as the rights of the trade were concerned. Nevertheless the Association found itself in 1886 threatened with bankruptcy, and was wound up in the summer of 1887 with a serious deficit, which was made up by some of its more earnest supporters. The fault, said the *C. & D.* at the time, was not wholly the trade's. The Association had latterly been somewhat recklessly conducted. It had "played to the gallery," and had paid for its applause by the loss of support from the more sober portion of the craft. And its annual subscription was only five shillings. There is a moral in the story well worth pondering just now.

The Council-meeting of November 3 dealt with so many important matters that it is not possible even to glance at all of them here. Most important of all is the test case. The Council, I am glad to see, appears fully to recognise the serious position in which it has landed itself, and seems disposed to take the best possible way out by shedding not only those activities which the judgment of the court distinctly bars, but those also which might more conveniently be left to an independent body. There is no doubt that this would be the wiser course. Leaving our business interests out of account for the moment, the Society would immensely enhance its value as the guardian of our professional rights by confining itself to that sphere. If the trade generally has lowered its professional status (as its critics allege) by its commercialism, the Society would do the same by transforming itself into a trade union; and if we have become too commercialised there is the more need that the protector of our higher interests should be free from that taint.

The Discussion at the general meeting of the Pharmaceutical Society on the proposal to increase the annual subscription was very one-sided, the arguments against the increase being overwhelming. It is true I have always been in favour of it hitherto, but the case is entirely altered by Mr. Justice Peterson's judgment. The President admits that one side of the Society's activities will be materially curtailed, and I venture to add that it is the most expensive side. We shall not need so costly a secretariat, skilled to deal with business affairs, and we shall get quit of the Local Associations Executive as an instrument of the Society. There is much force in the complaint of the pharmacist assistant that he is not protected by the Society to the same extent as the employer, for without an assistant's qualification he is much more liable to competition by unregistered men. I wonder nobody proposed to retain the guinea fee for simple membership, with an additional guinea for the supply of the Journal to those who want it. Mr. Atterbury's encomium upon it, by the way, was somewhat unhappily worded, since "phenomenal," properly speaking, means apparent as opposed to real. A real, as opposed to a phenomenal, improvement might be the result of making it self-supporting.

The Greenwood Case (which will be over before this note appears) provides a fresh argument against dispensing by doctors. Had the pills prescribed by Dr. Griffiths been dispensed by a chemist the difficulty occasioned by the doctor's lapse of memory could not have arisen. The prescription would not have been destroyed, and could have been produced in evidence; the doctor himself would thus have been saved a very ambiguous and painful position, and the course of justice would not have been impeded. In any other country than ours this case would be sufficient to end a practice which makes it possible; but with us custom and "vested interests" are so strong that in all probability its effect will be negligible. The moral of the case ought, however, to be "rubbed in" on every opportunity by every chemist in the land.

"Scar Gill" accuses me of unfairness, an imputation I should be sorry to deserve. Had I been reviewing his letter as a whole, my remarks would have pleased him even less than they did. Upon a re-reading it appears to be throughout an attack, more or less veiled, upon employers; they are represented as ruling the Society for selfish ends, as habitually eking out inadequate salaries by cheap sentiment, and (by imputation, at least) as moving for grants to Army men with a view to cheapening assistants. There is not a word in the letter that invalidates my conclusion that the writer was an advocate of impossible salaries; and, of course, being ignorant of "Scar Gill's" identity, I could judge him by his letter only. Anonymity, even when legitimate, has its disadvantages. For the rest, the letter of "Hear Both Sides" is a sufficient answer to "Scar Gill," and justifies all I said of the impossibility of paying the high salaries now being demanded.

Roger Bacon, whom Figuier calls England's greatest intellect, almost certainly knew the explosive nature of gunpowder, and may have discovered it, but not so certainly its propulsive power, the discovery of which has been pretty generally attributed to Schwartz, the date assigned for it being 1320. But Hallam ("Europe during the Middle Ages") quotes an Arabic writer, whose works are preserved in the Escurial Collection, for the use of gunpowder in war as early as 1249, and he concludes that it was introduced into Europe by the Saracens. This does not, positively rule out either Bacon or Schwartz, since the powder referred to (*pulvis nitratus* in the Latin translation quoted by Hallam) may have been merely a species of fireworks; and Bacon, then a student in France, was about twenty-six years of age at the time. Hallam, however, refers also to "another Arabic writer who seems to describe the use of *cannon* [my italics] in the years 1312 and 1325. He says, moreover, that the Chronicle of Alphonso XI. of Castile distinctly mentions the use of cannon at the siege of Algeciras in 1342, and adds that they were "sufficiently known" in France before that date. At any rate, Edward III. employed them at Crecy in 1346. Altogether Schwartz seems to be rather out of it.

Collyria, says Rennie, are eye-waters, and he gives twenty recipes for them, all of which answer to this description. Formerly the term included solid medicaments, chiefly ointments for the eyes, though I do not find any of these in our older dispensatories. Johnson, however, defines collyrium as "an ointment for the eyes," being in this respect less modern than Bailey. The Greek *kollyrion* from *kollyra*, a roll of coarse bread, probably meant at first a bread-poultice, but it was used mainly for eye-ointments of various consistencies, and also for such medicaments as pessaries and suppositories. Some of the ointments were so solid that they took and retained the impression of a stamp, several specimens of which, often referred to as "oculists' stamps," have been dug up in Britain, and are preserved in the British Museum. They are (says Cook's "Handbook to the Greek and Roman Antiquities") square blocks, usually made of greenish schist or steatite, with an inscription on each of the four edges. The names upon these stamps are apparently those of the inventors of the medicines; one of them, for instance, refers to the prescription of a certain Sextus Julius Sedatus. Probably some collyria were a sort of lozenge, or tablet, for the first of those in Quincy's book is simply a solution in rose-water of the trochisci albi of Rhazes. Eye diseases were very common among the ancients. About two hundred varieties are said to be mentioned in Greek medical writers. In a note under date April 15, 1911, I gave an account of a prescription for some eye complaint from a Greek papyrus of the second or third century of our era.

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Editorial Articles.

Trade Interests Organisation.

Elsewhere in this issue we print suggestions that have been sent to us as to the kind of body which should represent the trade interests of pharmacy. The Association is to perform those duties which it has been decided that the Pharmaceutical Society cannot undertake. The communications referred to contain some useful plans, but none of them should be taken as complete because the details can only be supplied after they have been worked out by a representative committee. It will be noticed as significant, however, that complete separation from the Pharmaceutical Society is regarded by contributors as a desideratum, but this unanimity may be modified by other opinions. As we mentioned last week, a hastily-summoned conference was held at 16 Bloomsbury Square, London, W.C., on November 3, to consider the effect of the test case upon the work of existing organisations in pharmacy. Those who attended listened to the outline of a scheme for the amalgamation of the functions at present performed by the Chemists' Defence Association, Ltd., and the Local Associations Executive. Such a plan obviously does not meet the requirement of a body free from the influence of the Pharmaceutical Society, so that it becomes a question whether unity would not be better attained by starting an entirely new Association, and leaving existing organisations to maintain their claims by giving good value for money. It is only fair, however, that the plan put forward by the Society's officials should be examined impartially. The Chemists' Defence Association, Ltd., was registered about twenty years ago with the following objects :

1. To provide legal advice for its members upon all matters pertaining to the business in which they are engaged.

2. To provide legal defence for any of its members who may be prosecuted under various trade Acts affecting them in business.

3. To indemnify its members against loss arising from mistakes in dispensing or retailing occurring in their places of business.

4. To supply information to its members in reference to any new Acts of Parliament affecting their business or any change in existing laws.

5. To watch such legislation in the interests of its members.

The nominal capital is 10,000*l.*, 5*s.* of each 1*l.* share being paid up, the shareholders being liable to a call of 15*s.* at any time. The Association has been successful in that it has defended many chemists in legal cases, paid claims for damages, and accumulated reserve funds. Its membership is over five thousand, all the shareholders being in business as chemists. The subscription varies according to the risks covered. As a limited company the objects can only be altered by permission of the High Court, and in the event of winding up the shareholders are entitled to claim that assets be distributed among them. In regard to the Local Associations Executive the basis upon which this is founded is the Insurance prescription bureau, which charges Pharmaceutical Committees for checking the pricing of the official pricing offices. Only panel chemists supply the funds, but there is reason to believe that a surplus is devoted to defraying, at least in part, the expense of conducting the other activities of the Local Associations Executive. The members of the Executive are now elected by a Federation of panel chemists and members of local Associations, but, until recently, the Pharmaceutical Society possessed the controlling influence. Company chemists are represented on this body. As the Local Associations Executive is claimed to be a sub-committee of the Pharmaceutical Society and is mainly devoted to objects outside the Charter powers, the operations of the Executive must be ended. It is not likely, however, that any member of the Pharmaceutical Society will apply for a restraining injunction, unless there is undue delay in dissolving the organisation. It is doubtful whether the Society has power to hand over to another body functions which it is carrying on illegally, but in such a case there must be certain concessions made so that the mistakes of the past can be remedied with as little inconvenience as possible. It seems, however, that Pharmaceutical Committees should be entitled to decide what shall become of the property that has been acquired for the purpose of carrying on the checking business with funds provided by panel chemists. Probably the committees will exercise their rights in this direction. They may even decide to set up their own price-checking department. As regards Scotland it seems that, although the same pharmacy laws apply to the whole of Great Britain, a different organisation will take charge of trade matters in Scotland. The Scottish Pharmaceutical Federation, to which we refer, was founded in April 1919, with the following among other objects :

(*a*) To establish a central body for the benefit of persons carrying on the trade or business of pharmaceutical chemists or pharmacists.

(*b*) To promote and assist in the formation of branches for the protection of the interests of persons carrying on such trade.

(*c*) To make and enforce agreements between members of the Federation, or between the Federation as such or the members thereof, and members of such Federations or Associations of any kind, concerning the terms and conditions upon which members for the time being shall and shall not sell their goods, transact business, employ or be employed.

(*d*) To assist branches to make and enforce such agreements, conditions, or regulations.

(*e*) To take all requisite steps to obtain alterations or improvements in the law relating to the trade.

(*f*) To take all requisite steps to promote the representation of the trade in Parliament or on County Councils, Town Councils, Insurance Committees, or other national or local authorities.

(*g*) To take all requisite steps for the representation of the trade upon deputations to or conferences and discussions with any Ministry of the State, Government Departments, or other public authority.

(*h*) To attend to the interests of the trade in relation to Industrial Councils, Trade Boards, National Health or National Insurance, or other schemes of public administration that may affect the trade.

(*i*) To prosecute or defend any action or to assist financially or otherwise in the prosecution or defence of any action brought by or against any branch or any member of the trade which may involve questions of general interest.

A ready-made scheme thus exists, which it is suggested can be adapted for England and Wales, the three Federations being also linked together. It will be observed that the objects provide for the contingency of Industrial Councils, or Trade Boards, for price regulating and defence in prosecutions. The last mentioned object is carried out, we believe, by an arrangement with an insurance company, a modern method of covering such risks, which is also adopted by the Chemists' Dental Society. Other insurances could be covered in a similar way. The Federation issues monthly a retail price-list for chemists. Having thus outlined the scope of the organisations, which might be adapted to present needs, we should be glad if our readers would examine the matter further. There is, for example, the important and difficult question of finance. Without ample funds an organisation could not be set up, nor could adequate remuneration be paid to a secretary, who in this case must be an enthusiast. The amount of subscription and the number of members likely to join the new body are the deciding factors in this case.

Eucalyptus Oil.

Now that the period of eucalyptus-oil distillation in Australia is concluded, and the principal consuming season at hand, it is possible that a revival of interest will be shown by market operators and consumers. At the moment, however, the general stagnation in trade would appear to have lessened the demand, and buyers in some quarters seem to expect a decline in price such as has been taking place in other essential oils. Eucalyptus oil is, however, one of the very few essential oils which have maintained their value at the present time. Prices below 3*s.* per lb. have been quoted this week, but we believe we are correct in saying that there is very little B.P. oil obtainable at less than 3*s* 2*d.* per lb. in bulk quantities. Imports from Australia have recently been below the average, and speculative interests have not been operating in new season's oil. Stocks in importers' hands are moderate, although consumers are believed to have bought fairly well about two months ago, when the price was from 2*s.* 9*d.* to 3*s.* There are other factors which militate against a decline in value. Compared with the advances made in the prices of other oils during the war period, the present quotation for eucalyptus oil cannot be considered excessive. During the war also there were no sensational increases in value. The price in July 1914 was from 1*s.* 3*d.* to 1*s.* 6*d.* per lb. in bulk quantities in Mincing Lane. Three years afterwards, in July 1917, its value had appreciated to 2*s.* 9*d.* to 2*s.* 10*d.*, and about October 1918 values reached their highest at 4*s.* 3*d.* to 4*s.* 6*d.* At that period the so-called influenza epidemic was rife almost throughout the world, and that, together

with speculation, drove up the price. It should be noted also that when the market touched its highest, stocks were very much larger than they are at present. On the other hand, owing to the restrictions on shipping space, there was the prospect of priority of export being refused. If we compare the pre-war cost with the present quotation on a percentage basis we find that the increase is about 160 per cent. The cost of labour has risen enormously in Australia as elsewhere, and it is said that, at the still, crude oil shows no profit at 100 per cent. above the pre-war figure. The war was a heavy drain on the manhood of the country, for it must be remembered that Australia supplied more men to the Allied Forces, in proportion to her population, than did any other country in the world. Moreover, the cost of containers has also increased by the substitution of tinplate containers for the previous unsatisfactory kerosene tins. We understand that the oil is now shipped "under hatches," which means that the goods present a clean appearance at the end of the voyage compared with deck cargo. In some quarters the opinion is held that a slight increase in price may be expected at no distant date. The distillation of eucalyptus oil is one of Australia's most important industries, and one of the largest companies of distillers employs its own botanist to investigate and report on new species. It is of interest to note that oil is no longer obtained from *Eucalyptus globulus*, and that most of the oil for pharmaceutical purposes is distilled from *E. polybractea*, *E Smithii*, and *E. Australiana*, these oils containing cineol in large proportions. It is common knowledge that the largest outlet for eucalyptus oil (containing phellandrene) is found in the separation of zinc from its ores by the flotation method (details of which have been given in the *C. & D.*), and it is said that upwards of 300 tons of phellandrene oil is used annually in this process. The species from which the bulk of this oil is obtained is *E. dives*, which was formerly classified as a variety of *E. amygdalina*, and which consists principally of lævorotatory phellandrene, $C_{10}H_{16}$. Subsidiary branches of the eucalyptus-oil industry have been started in the preparation of geranyl acetate from *E. Macarthuri* and of citronellol from *E. citriodora*, and it is probable that these may constitute the beginnings of an important perfumery-oil industry, especially as great encouragement is given to the local distillation of essential oils by the Excise regulations, which permit the use of duty-free Australian spirit in the manufacture of perfumery if it is converted into a primary perfume by adding other Australian products that will effectively denature the spirit.

Chemical Society.

A large number of papers was read at the meeting of the Chemical Society, held at Burlington House, London, W.C., on November 4, Sir James Dobbie, F.R.S., being in the chair. Sir William Pope (in collaboration with Messrs. E. E. Turner, R. H. Atkinson, C. T. Heycock, H. W. Bausor, and C. S. Gibson) contributed three papers; on *Triphenylarsine and Diphenylarsenious Salts*, *The Preparation and Physical Properties of Carbonyl Chloride*, and *Interaction of Ethylene and Selenium Monochloride*, which were taken together. Sir William Pope mentioned that early in the war the question arose of manufacturing on a large scale $(C_6H_5)_2AsCl$, and reviewed the method described in the literature. By the condensation of chlorine and arsenious chloride in benzol a yield of 90 per cent. of triphenylarsine was obtained. On heating to below boiling-point and passing in arsenious chloride, a mixture of $(C_6H_5)_2AsCl$ and $C_6H_5As.Cl_2$ was produced. In the course of these investigations several other products were also prepared, such as $(C_6H_5)_2AsI$. A fact of importance which resulted from these experiments was that it was quite unnecessary to follow the old and dangerous method requiring the use of brombenzol and ether. For the purposes of chemical warfare it was decided to study the effects of utilising selenium. The interaction of Se_2Cl_2 with ethylene was found to yield a compound of the formula $(CH_2Cl.CH_2)_2SeCl_2$, which, however, was discovered to be quite innocuous. The armistice was declared just as the authors were about to study a product which had been obtained on continuing this work, and the further investigation of its properties, for use in warfare, was therefore abandoned. The production of phosgene on a large scale by the method suggested by Paterno (condensation of carbon oxide and chlorine in the presence of charcoal as a catalyst) required the use of a very active form of charcoal. When using a satisfactory form of charcoal it was possible to carry out the reaction at a temperature of 14°, a very great advantage since it dissociates at about 200°, hence the necessity of keeping the temperature low. The author also dealt with the physical properties of phosgene, and described an eudiometer, which had been elaborated for measuring its vapour pressure, a point of importance in shell-filling.

In his paper on *A Study of the Reactions of Sugars and Polyatomic Alcohols in Boric Acid and Borate Solutions with some Analytical Applications*, G. van B. Gilmour alluded to the observation that boric acid in the presence of certain alcohols yields stronger acidic bodies; this is particularly the case in the presence of fructose. With mannitol boric acid yields an equimolecular compound. The author also mentioned that a solution of boric acid in milk is four times more acid than a similar solution in water. He then dealt with the titration of boric acid by fructose; three molecules of the latter being required to titrate one molecule of boric acid. He also referred to the use of fructo-boric acid as a substitute for honey and borax. Professor J. C. Irvine (with E. S. Steele) contributed a paper on *The Constitution of Polysaccharides. Part I.—The Relationship of Inulin to Fructose.* He mentioned that practically nothing is known about inulin, even its empirical formula is open to doubt, and in his opinion it is an octo-saccharide, with three hydroxy groups. On methylation in solution of caustic soda inulin yields dimethyl-inulin, and the author succeeded in obtaining trimethyl-inulin, which can be distilled *in vacuo*. He also succeeded in obtaining 102 parts of crystalline methylglucoside from 100 parts of cellulose, a yield of 95 per cent. of sugar. *Researches on Residual Affinity and Co-ordination. Part II.—Acetyl-acetones of Selenium and Tellurium*, was the subject of the paper contributed by Professor G. T. Morgan (with H. D. K. Drew). Professor Morgan dealt with the various compounds formed by acetyl-acetone, for which he suggested the designation "Chelate" group, *i.e.*, "great claw." With metals acetyl-acetone, by losing hydrogen, forms metallic compounds which are volatile, whereas with non-metallic bodies, such as boron, it yields salts. In interaction with selenium tetrachloride, crystalline flakes are obtained, and with tellurium tetrachloride, a golden substance is produced. When exposed to the action of acid potassium sulphite the selenium compound of acetyl-acetone regenerates acetyl-acetone:

$$C_5H_6O_2 : Se + 2HSO_3K = C_5H_8O_2 + Se(SO_3K)_2.$$

Mr. E. B. Maxted read a paper on *The Influence of Lead on the Catalytic Activity of Platinum*, in which he described a study of how the catalytic action of platinum is inhibited by the addition of lead. This was done by adding successively small portions of the poison, *i.e.*, lead, to platinum in the process of hydrogenation, measuring the velocity of the absorption of hydrogen in the presence of platinum, by using a mixture of oleic acid, acetic acid, and lead acetate in the presence of 0.01 gram of platinum as a catalyst. He found that one milligram of lead poisons 8.8 milligrams of platinum, but the catalytic power of the remaining amount of platinum is untouched.

Reorganising Pharmacy.

In response to our invitation for suggestions as to the kind of organisation that should be set up in the Drug-trade to deal with political matters of a trade nature, we have received several suggestions. These and kindred matters are dealt with in this section.

An Organiser's Plan.

Organiser (5/11) writes: The result of the test case, which simply confirms the opinions obtained through counsel years ago, makes it necessary to understand the problem before us and the way of safety. The organisation in pharmacy is a somewhat complicated affair, and though it received praise from the Fabian Society's investigators in 1916, the organisation leaves a great deal to be desired. The present pother is the direct result of an effort to avoid a Trade Board threatened in March 1919, and still not settled by the Ministry of Labour. Before a complete understanding can be arrived at the present organisation should be made quite clear.

The Pharmaceutical Council, elected by the individual members of the Pharmaceutical Society, is now definitely confined to educational, examination, registration, and legal duties. It cannot allocate the functions it has been usurping to any other body.

Local Associations.—These are mixed bodies, like the Pharmaceutical Society, and in membership go, in many cases, somewhat beyond the official definition of a pharmacist. Their functions are limited only by their capacity and funds.

District Associations are subdivisions of larger bodies.

Pharmaceutical Committees are bodies elected by panel chemists, are statutory, with funds deducted from chemists' accounts, and are camouflaged as sub-committees of the Associations. In reality, they are independent.

County Associations are merely executive committees representing the Associations or district Associations in their areas.

Federations are an executive of all the Associations in the areas, somewhat larger, but often overlapping County Associations.

The Local Associations Executive is a body elected to represent the Federations, but it derives its funds from fees paid for checking Insurance prescriptions. These funds belong to the Pharmaceutical Society, and are under the control of its Council and treasurer. The Committee pays part of the expenses of the Federations, as well as part of the salaries of their secretaries. It has the final control, subject to the Council of the Society.

Subscriptions.—These are as follows: The Pharmaceutical Society (in future), one and a-half guineas; local Associations, from 2*s.* 6*d.* to 10*s.* 6*d.*; Federations, 1*s.*

Other bodies are:

The Proprietary Articles Trade Association, for maintaining prices of proprietary articles. Subscription 7*s.* 6*d.*, largely for chemists, but open to others.

The Chemists' Defence Association is a limited liability company *ad hoc*, for insurance against mishaps or otherwise in the retail business. The shareholders must be chemists. The subscriptions are 21*s.* to 30*s.*

In Scotland the Pharmaceutical Society maintains its local secretaries; there are local Associations, but no Federations in the English sense. There is a Panel Chemists' Association, somewhat different from that in England. Over all there is an *ad hoc* body, called the Scottish Pharmaceutical Federation, for purely trade purposes, insurance, etc., which agreed to suspend its activities in certain directions pending the decision in the test case. The Federation will now probably become the co-ordinating power in Scotland.

It will be seen that the Scottish system is simple now, and will probably absorb all the other bodies, which have been slowly weakening in face of the *ad hoc* Federation.

England and Wales present greater difficulties, but an *ad hoc* body is the true solution, since none of the subscriptions mentioned is sufficient to warrant the idea of progress. The Chemists' Defence Association, being a limited company, cannot go beyond its immediate objects, and could not divert its direct subscriptions for any other purpose than those for which they were subscribed and defined. The Proprietary Articles Trade Association is clearly outside the scope of retail pharmacy, since its membership is not confined to retail pharmacists. The Associations are different, being the only free bodies. There would appear to be only one way for the Federations and Local Associations Executive, and that is by formally winding-up and closing accounts under the direction of their controlling parent—the Council of the Pharmaceutical Society. The powers of the Executive and Federations can be relinquished, but there are certain properties built up during the years 1913 to 1920 which have a market value and could naturally be sold. This is undoubtedly the straight course to adopt, since the Society has, in itself, no further use for these things.

The solution of the problem is to form a nucleus of twenty or thirty guarantors, elect a committee *pro tem.*, draw up the necessary rules and regulations and submit them to the unfettered Associations for acceptance. Within three months the first annual general meeting should be called to confirm, modify, or add to the rules. The subscription cannot be less than one guinea, or, better, one and a-half guineas, which would allow 25 per cent. for local expenses. Several of the rules of the present tied Federations would be easily adapted, and the local secretaries entitled to one shilling per member as an honorarium. The books kept would be prescribed by the central body, and divisional councils could be set up where necessary—at least six would be required. Each divisional council when established would be provided with an organiser, who would be under the control of the head office, subject to local needs. As time went on the Associations outside would doubtless amalgamate or be bought out. In any case, working arrangements could be formulated. The central body would form the employers' side of an Industrial Council in pharmacy, and with the organisation of employees would soon be able to work the Unemployment Act, together with a supplementary scheme, which would go far to redeem a craft of educated men from the insecurity of tenure which tends to destroy efficiency.

Would such a body be antagonistic to the Pharmaceutical Society? I think not; it would strengthen it very much and make pharmacy an efficient trade, with its veneer of professionalism lifting it to something of which all could be proud.

A Federation Scheme.

Yorks (9/11) writes: I would call the new body the "National Federation of Master Pharmacists," leaving out the word "employer," as it has been expressly stated that a man in business need not be an employer to be a master. It would have for its object the co-operation and support of the whole of the members in business, and would guard the interests generally, wholesale and retail; to obtain fair treatment from Government Departments, and to watch over all suggested Parliamentary measures likely to affect prejudicially the members of the whole trade, and generally to do all those things or acts which the High Court has determined that the Pharmaceutical Society by its charter is not entitled to do; no member of the Council of the Federation to be at the same time a member of the Council of the Pharmaceutical Society, and I would have the meeting-place on neutral ground, so that the Federation might be entirely away from official prejudice or unofficial suggestions. The secretary would, of course, have to be a registered pharmacist. There would be regional Federations formed from local Associations, and they would be affiliated to the national body as branches of the National Federation. There would be Federation branches of the Northern Counties, Yorkshire, North-Western, Midland, Southern Counties, South-Western Counties, South

Wales, London, within a radius of ten miles of Charing Cross, and Scotland. The official organ of the Federation to be The Chemist and Druggist. I would suggest also that there be sectional committees for the wholesale, retail, and proprietary proprietors. It should be one of the duties of the Federation to seek to have set up an Industrial Council and to apply to the Ministry of Labour for official recognition. The Industrial Council would have to be composed of members of the National Federation of Master Pharmacists and the Amalgamated Society of Pharmacists, Drug and Chemical Workers' Union, and would, as one of its objects, have to discuss from time to time the readjustments of wages, together with other and general conditions affecting labour. This Council should be the recognised consultative body to which the Government should appeal on all questions affecting pharmacy, and be also the recognised channel from which the Government might seek opinion and advice. Such a Federation would be really under the control of the members of the craft forming the committee, who would represent the electorate, and not under the control of one man, who expects that ten thousand minds shall think as one, and that "his own." It was recognised long before the historic decision, by a very large following, that the Pharmaceutical Society had become a "back number" as far as chemists in business were concerned.

An Employers' Trade Union.

Bread and Butter (7/11), after referring to the policy of diluting the Register which has been pursued by the Pharmaceutical Society, writes: Now the recent test case has clipped the wings of the Society, and revealed even to the ultra-pharmaceutical fanatics that this august body has no power whatever to act in trade matters. This astounding knowledge was known to most of the common or garden pharmacists years ago. But it needed the trouble and expense of the test case to bring it home to these higher intelligences. However, criticism should be constructive as well as destructive. The present time affords a brilliant opportunity to pharmacy to set its house in order, and I would offer the following suggestions:

(1) Let the Pharmaceutical Society accept the inevitable and become a purely examining and registering body like the General Medical Council.

(2) Let the Local Associations Executive be dissolved; it is too much under the blighting and paralysing influence of Bloomsbury Square—*e.g.*, its futile efforts in Insurance dispensing affairs.

(3) Let a strong trade union of master pharmacists be formed, quite separate and distinct from the Society, and excluding drug company officials. This body could regulate prices, fix reasonable wages, deal with the Government in Insurance matters, and conduct strong publicity campaigns against obnoxious legislation, such as the Dental Bill and Proprietary Medicines Bill.

Such a trade union could purge itself from all the professional pharmaceutical nonsense, that poisonous miasma which prevents us acting as other tradesmen act and secure a living remuneration for our services. Its eye would be upon hard cash for services rendered, the ethics could safely be left at 17 Bloomsbury Square. If the Chemists' Defence Association has any men of vision at its head I believe this body could easily be expanded to meet all our requirements.

Scotland Active.

The Scottish Pharmaceutical Federation, of which Mr. James Jack, Ph.C., Arbroath, is President, and Mr. Alexander Murray, 255 Albert Road, Pollokshields, Glasgow, secretary, has sent out to chemists in Scotland the following letter with a membership form:

In view of the recent decision in the Courts as to the powers of the Pharmaceutical Society, in so far as questions of trade are concerned, it has now been definitely decided that the Pharmaceutical Society are only entitled to carry out the aims and objects as stated in their Charter. This means that another organisation must look after the trade interests, and the Scottish Pharmaceutical Federation, formed for this purpose, is now in a position to undertake the work. At the present moment the Scottish Pharmaceutical Federation has a membership of several hundreds, and has already established branches in most of the principal centres in Scotland. If you are not already a member it is essential in your own interests that you become a member of this body now. The Executive Council of the Federation met on Wednesday, November 3, and in view of the clamant need for consolidation it was determined to get in touch with every pharmacist in Scotland so that he could have an opportunity of joining the branch of the Federation nearest to him. You will probably have noticed in the Press that not very recently trade boards have been set up for some of the distributive trades, and it is anticipated that a trade board for the drug-trade will be in operation within the next few weeks. Hence it is imperative that you should become federated, otherwise you cannot possibly have representation. A similar organisation to our Federation is being set up for England and Wales to meet these conditions, and there can now be no doubt that a trade organisation is absolutely necessary. I am instructed to add for your information that the Scottish Pharmaceutical Federation is now in a position to offer all benefits essential to pharmacists on better terms than those offered by any organisation in Great Britain.

Discussion at North London.

The monthly meeting of the North London Association was held on November 9 at the Progressive Pharmacy Club, Mr. C. W. Andrew in the chair. The presence of Mr. James Jack, chairman of the North British Executive, gave the opportunity for an address on the organisation of trade interests. Mr. Jack took up the question of federation, and pointed out how the dispute arose over the functions of the Pharmaceutical Society. The main question was over a "down tools" policy in connection with Insurance dispensing, but there was scarcely sufficient cohesion to carry this through. The resolution was to have the interpretation of the expression "chemist and druggist carrying on business" made clear, since the confusion arising was the main cause of the lack of cohesion. The opinion at headquarters was against them, but the Federation stuck to their guns. They had an expert on trade-union law, who gave them their cue by drawing up and defining objects to cover not only present but future needs. The test case has proved that the Federation was right. Mr. Jack then outlined the method of branch organisation with a federal executive; it was necessary that Scottish autonomy should not be affected. This was now practically admitted. He outlined the functions of Trade Boards and the way they would affect employers. The Scottish Federation has offered the services of the Federation Executive to the English authorities, but apparently this was thought to be unnecessary. Mr. Jack also showed how insurance against risks was covered by their indemnity policy and the much larger benefits that resulted. He did not feel justified in going into the question of the Chemists' Defence Association, but he did know the full benefits of their own Association. The functions of the Pharmaceutical Society now being clearly defined, there can no longer be any hesitation in taking decisive steps for forming a vigorous body capable of dealing with all the trading questions that might arise now or hereafter. Questions were invited on the work that has been done, and Mr. Young, Mr. Weiss, Mr. Hearle, Mr. Fouracre, Mr. Noble, and others spoke. After Mr. Jack had left to catch his train, Mr. Herbert Skinner took up the thread of the test case as it affected the organisation of a body such as the Association. After he had expounded the details of the judgment, he dealt fully with what he designated as the only true and proper organisation. He defined how a strict and independent body must not be merely a compromise between two bodies like the Local Associations Executive and the Chemists' Defence Association. The independence must be real, and an *ad hoc* body formed with direct membership and ultimately with branches and divisional councils. No confusion should exist in the minds of members, unless there is a possibility of a true body on trade-union lines being formed and carried on in accordance with those requirements. Mr. Jenkin, while agreeing in the main with Mr. Skinner's exposition, disagreed with the possible submerging of

such a body as the North London Association as a mere branch of any federation. Mr. Harrison asked further questions, and Mr. Keith explained the position of a limited company and the benefits it assured as quite poor in comparison with what might be obtained for less money through a big insurance company. Mr. Young elucidated several obscure points. Mr. Fouracre could not see what good the Federation would be to assistants. Mr. Hearle moved that

This Association demands a strong and independent Federation, and that Federation should come into being and assert its independence forthwith.

He emphasised particularly the need of stabilising conditions in pharmacy. Mr. Weiss seconded the resolution, and a vigorous discussion ensued, which all centred in the determination to form "an active Federation." After the resolution had been carried unanimously it was decided that it should be sent to the members of the Pharmaceutical Council and the Local Associations Executive with a covering letter. A special reminder is to be sent to the three members on the L.A.E. representing the Metropolis, urging them to support an independent and direct subscribing Federation.

Associations' Winter Session.

Aberdeen.—The ninth annual meeting of the West Aberdeenshire Pharmacists' Association was held on November 3, the chair being occupied by the President (Mr. Alexander Mackie, Culter). After reference by the chairman to the loss the Association had sustained by the death of Mr. James F. Ironside, Inverurie, the balance sheet was passed. This showed a slight deficit. The annual subscription was again fixed at 3*s.* 6*d.* The following officials were elected: *President*, Mr. George Stephen, Huntley; *Vice-President*, Mr. J. M. Wilson, Insch; *Secretary* and *Treasurer*, Mr. J. R. Reith, Cults; *Executive Committee*: Messrs. Stephen, Wilson, Reith, Christie, Mackie, and Cruickshank. It was agreed to continue the issue of the retail price out of the Association's funds. A proposal to alter the date of the annual meeting was deferred. Afterwards Mr. John Cruickshank, Bucksburn, in the name of the members of the Association, presented their hon. secretary with a gold watch bearing the following inscription: "Presented to John R. Reith, Esq., Hon. Secretary, W. A. Ph. A., by the members, as a token of their appreciation of his services to Pharmacy, 1920." Mr. Cruickshank, in making the presentation, voiced the feeling of the members of the Association in handing Mr. Reith something tangible in proof of their acknowledgment of his valuable services to this Association and to pharmacy generally. Tea was afterwards served.

Assistants' Union.—At the monthly meeting of the Newcastle pharmacists' and assistants' section of the National Warehouse and General Workers' Union, Mr. W. H. Burn presiding, consideration was given to the new Unemployment Act as it affects chemists, and it was recommended that members should use the union for its application. The new union rates and scales also came before the meeting, and it was decided to take legal advice as to whether bound apprentices can join a trade union, and if rates in indentured agreements could be maintained, despite the present high cost of living.

Birmingham.—The new Council of the Birmingham Pharmaceutical Association held the first meeting on November 8. Mr. H. O. Lloyd, the outgoing President, welcomed the new members, Messrs. F. Barlow, J. W. Bland, G. Hampton, and C. V. Thompson. The following officers were elected: *President*, Mr. J. W. Atkinson; *Vice-Presidents*, Messrs. H. H. Marshall and F. W. Smallwood; *Secretary*, Mr. F. Smith; *Treasurer*, Councillor J. Poole; *Librarian*, Mr. F. H. Alcock; *Assistant Librarian*, Mr. H. Berry; *Auditors*, Messrs. E. Gee and F. R. Smallman. Mr. H. O. Lloyd was thanked for the time and service he had devoted to the Association during his two years of office. It was decided to form a local subscription list for the Harrison Memorial Fund, and a preliminary list of subscribers was formed in the Council, 10*l.* 10*s.* being subscribed.

Bournemouth.—The Bournemouth Pharmaceutical Association held a meeting on November 5, Mr. H. J. Martin in the chair, at which Dr. J. Stanley White gave his lantern lecture on *Ductless Glands*. There was a good attendance, including several ladies and doctors.

Brighton.—On November 3, Brighton and Hove Association of Pharmacy heard the lecture on *Ductless Glands*, by Dr. J. Stanley White. An invitation had been issued to the local medical men, and also to the pharmacy students now attending the Technical College. The President of the Association, Mr. C. G. Yates, welcomed the visitors, and at the conclusion of the lecture Dr. G. Morgan replied and proposed a vote of thanks to the lecturer.

Eastbourne.—At a meeting of the Eastbourne Pharmacists' Association held on November 2, Dr. J. Stanley White (of Parke, Davis & Co.) gave an interesting lecture on *Ductless Glands*. There was a good attendance of medical men.

Huddersfield.—The monthly meeting of the Huddersfield Chemists' Association was held on November 4 at the Chamber of Trade Rooms, Mr. J. B. Broadbent (President) in the chair. Mr. R. C. Walshaw was congratulated on his being placed on the commission of the Peace for the borough. Mr. Walshaw, later, spoke on the present position of pharmacy and the new income-tax regulations.

London (E.)—The opening meeting of the East London Pharmacists' Association was held at Limehouse on November 4, Mr. A. R. Keith (President) in the chair. The balance-sheet was approved, and it was decided to send a donation to the Early Closing Association. The election of officers for the current session resulted as follows: *President*, Mr. A. R. Keith; *Vice-President*, Mr. A. Coulton; *Hon. Secretary*, Mr. B. Abelson; *Committee*, Messrs. Angus, Gradidge, Styles, and Whitehead; Messrs. Keith and Styles were appointed to represent the Association on the County Executive and Messrs. Keith and Abelson on the Pharmaceutical Committee. The chairman referred to the death of their former member, Mr. G. Wilson, and a vote of condolence with the widow and family was passed. The suggested new terms for Insurance dispensing were approved. The President informed the meeting of the proceedings of the Council of the Pharmaceutical Society relative to the Proprietary Medicines Bill. He also indicated the probable results to trade organisation in consequence of the decision in the test case, Jenkin *v.* the Pharmaceutical Society. The Association was congratulated upon its success in the Script Sports Club competitions. Some criticism took place of the rules in the shooting competition, and the President promised to take the matter up with the Script Sports Committee.

Ulster.—A general meeting of the Ulster Retail Drug Trade Association was held in the Chemists' and Druggists' Rooms, Waring Street, Belfast, on November 3. Mr. Samuel Suffern (President) in the chair. The meeting was summoned to confirm changes in rules necessitated by the appointment of Mr. W. J. Stevenson as secretary, and to include minimum dispensing charges in the price-list. Prices are to be arranged from time to time by the North Irish Pharmacists' Association Committee and handed over to the U.R.D.T.A. Committee for distribution to pharmaceutical chemists only. The Proprietary Medicines Bill was also considered from the point of view that it may be used as a model for future Irish legislation. The following Committee was appointed to take charge of the matter: Messrs. James Tate, W. J. Hardy, A. Wilson, with the President and hon. secretaries. Mr. J. C. Culbert gave an account of the changes in the constitution of the Chamber of Trade. Mr. Hardy reported that he had been invited to represent the U.R.D.T.A. at the annual dinner of the Dublin Association in place of the President (who was unable to attend), and he was authorised to suggest to the Dublin Association the need of closer co-operation.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Insurance Dispensing Remuneration.

The remuneration for Insurance Act dispensing is at present under consideration. The proposed scale of fees will, it is anticipated by the Local Associations Executive, give an average increase of 20 to 25 per cent. on the present remuneration, and at the same time remove several objectionable features. Pharmacists will know exactly what fee is payable in respect of any particular prescription. Compound preparations listed in the tariff and the agreed drug-list will be paid for at the manufacturers' price as given in the list. The following is the present scale of dispensing-fees, together with the proposed scale for comparison :

Scale of Dispensing-fees.

Mixtures, emulsions, liniments, lotions, gargles, mouth-washes, drops, and other classes of liquid medicaments not specified in this scale, required to be compounded or prepared by the chemist :

	Pence per Prescription	
	Present Scale	Proposed Scale
(i) Extemporaneously	5.4	6.0
(ii) In bulk...	4 7	
Emulsions	7.2	
Ointments, pastes, and confections	6.6	
Powders, over 1 and not exceeding 6 ...	6.0	
,, each extra half-dozen or part of half-dozen	—	2.0
Powders, over 6 and not exceeding 12 ..	7.8	—
,, each extra dozen or part	1.8	—
,, mixed bulk	6.0	6.0
Cachets, not exceeding 6	7.8	8.0
,, over 6 and not exceeding 12 ...	9.6	—
,, each extra half-dozen or part of half-dozen	1.8	2.0
Pills, not exceeding 24	9.6	6.0
,, each extra two dozen or part of 2 dozen	1.8	2.0
Plasters	11.4	6.0
Blisters	7.2	
Suppositories. pessaries, bougies, capsules, ampoules, pastilles, and lozenges :		
Not exceeding 6	11·4	—
Over 6 and not exceeding 12	13.2	—
Each extra dozen or part	1.8	—
Suppositories, pessaries, bougies, capsules not exceeding 12	—	12.0
Each extra dozen or part of a dozen ...		2.0
Capsules, pastilles, lozenges not exceeding 24	—	6.0
Each extra 2 dozen or part of 2 dozen ...	—	2.0
Granules	16.8	6.0
Tablets, not exceeding 12	14.4	—
,, each extra dozen or part	1.2	—
,, not exceeding 24	—	6.0
Each extra 2 dozen or part of 2 dozen ...		2.0
Appliances	2.4	3.0
Any simple solid or liquid drug or preparation (excluding serum, vaccines. and oxygen) ordered alone (*e.g.* Boric acid, castor oil) and not required to be compounded or prepared by the chemist	3.9	4.0
Serums and Vaccines	9.1	9.0
Oxygen	9.1	9.0
Urgent Fees	—	Double dispensing fees

Reports from Local Centres.

ENGLAND.

Burnley.—The Insurance Committee have adopted a rule that any insured person raising a question which, after investigation by the Medical and Pharmaceutical Service Sub-Committees appears frivolous or vexatious, shall be deemed to have committed a breach of the regulations punishable by a fine of 10*s.*, or 20*s.* in case of repeated offences, or alternatively a suspension of medical benefit.

Devon.—A meeting of the Pharmaceutical Committee was held at Exeter on October 28, Mr. March presiding. The reports of the Central Checking Bureau for April and May were approved. Difficulty having been experienced in arranging a satisfactory rota for a town in the area, it was recommended to ask Insurance Committees to call a conference between representatives of the Insurance and Pharmaceutical Committees and the chemists concerned.

Essex.—At the quarterly meeting of the Insurance Committee, held on October 26, Mr. E. N. Buxton (vice-chairman) presiding, it was reported that the following payments had been made from the Drug Fund for the quarter ended September 30 : To chemists, 6,800*l.* 6*s.* 6*d.*; chemists, on account of the Sanatorium Benefit Fund, 163*l.* 8*s.* 7*d.* Seven names have been added to, and seven withdrawn from, the list of persons supplying drugs and appliances.

Kent.—The Insurance Committee, at their meeting at Maidstone, on October 27, had before them two reports of the Pharmaceutical Sub-Committee which contained two complaints against chemists. The first was raised by an insured person in reference to the alleged failure of a chemist in a rural district to supply medicine on a Sunday. The chemist's written reply to the complaint was to the effect that on the Sunday in question he went to see a relative who was unwell, and forgot to place a notice in the window saying that he would return by the 9 P.M. train. He also stated that he had not received the official form of notice on which to state hours of service. The report of the Sub-Committee stated that these notices were issued to all chemists on March 29, 1920. The chemist explained to the Sub-Committee that assistants are not easily obtained, and that the assistant he had at the time was not prepared to undertake Sunday duty. The necessity of posting a notice so that the public should be informed of any alteration in the published hours was pointed out to the chemist, who stated that he now had an assistant who was prepared to attend on Sundays, and that he did not anticipate any recurrence of the difficulty. He agreed to repay any cost which might have been incurred. It was found that the chemist committed a technical breach of the terms of service. Having regard, however, to his offer, no action was taken. The second complaint was that application was made on two occasions at the shop of a chemist for medicine, but the applicant received no reply. The Sub-Committee were of the opinion that the statements made by the chemist that he actually answered the ring, although out of his hours of service, must be accepted, and accordingly found the complaint was not substantiated. Several alterations in the panel list were notified.

London.—At the monthly meeting of the Insurance Committee, held on October 28, Mr. F. G. Hill (chairman) presiding, all the reports were adopted (*C. & D.*, October 30, p. 86).—A meeting of the Pharmaceutical Committee was held on November 9, Mr. A. J. Wing (chairman) presiding. The report of the Checking Bureau for August showed a margin of error of 0.13*d.* The Committee considered a letter from the Local Associations Executive submitting a revised scale of dispensing-fees, and it was decided to agree to the submission of the new terms to the Ministry of Health. It was also agreed to send a recommendation to the Local Associations Executive concerning increased remuneration from July 1, 1920. A special sub-committee reported the result of their deliberations on the form of prescription-books and the question of the selection of stock mixtures by the Panel Committee from the Central List. The secretary reported that 321,039 prescriptions were dispensed in August 1920, at an average cost of 9.68*d.* A postcard had been issued to chemists undertaking dispensing of Ministry of Pensions prescriptions, giving definite information as to procedure. As doubt existed among panel chemists on the subject of the revised London Insurance Pharmacopœia and stock mixtures, a circular letter was issued elucidating the points in question. The average cost of medicines was 1*s.* 8.99*d.* for 1919, as compared with 1*s.* 11.08*d.* the previous year.

Shropshire.—At a meeting of the Insurance Committee held on October 23 the Panel Committee reported that they had completed an investigation of over-prescribing by twenty-seven doctors. They recommended that Dr. Green be surcharged 5*l.* and Drs. Berry and Brown

10*l.* each, and that the sums be recovered from them or be deducted from any capitation fees which might be due to them. The report was passed.

SCOTLAND.

Stirling.—At a meeting of the Burgh Insurance Committee it was stated that an inquiry regarding excessive prescribing had been made by the Panel Committee. The Insurance Committee agreed that the inquiry had been satisfactory. Where excessive prescribing had resulted it had been unavoidable, and the greatest difficulty is being experienced in keeping within the 2*s.* limit if justice is to be done to the patients.

Society of Public Analysts.

A meeting of the Society of Public Analysts was held on November 3 at the Chemical Society's Rooms, Burlington House, London, W., Mr. Alfred Smetham (President) in the chair. A paper on *The Gravimetric Estimation of Bismuth as Phosphate and its Application in Ore Analysis* was read by Messrs. W R. Schoeller, Ph.D., and E. F. Waterhouse. In this was described a modification of the method for the gravimetric estimation of bismuth as phosphate, the directions being sufficiently explicit to render the method easily applicable even if the operator has only an occasional determination to make. A process for the determination of bismuth in ores was also described. The lead is removed by iron wire; copper, arsenic, and antimony by extraction of the sulphides with sodium cyanide and sulphide, and the bismuth converted into and weighed as phosphate. The authors endorse Moser's opinion of the phosphate method—*i.e.*, that in the great majority of cases it should prove the most advantageous method, and be accorded first place in the text-books. *The Time Factor in Saponification* was the title of a paper by Mr. Percival J. Fryer. Determinations were made of the rate of saponification under certain specific conditions of temperature, solvent, and concentration of alkali, of various oils belonging to the different classes of oils and fats, with a view to ascertaining if such differences in rate are sufficiently great to form the basis of an analytical method for identifying individual oils and fats. An apparatus for collecting samples of water at great depths was next described by Mr. W. T. Burgess. The device is supported by a single wire, and the sample collected in a stout glass vacuum tube protected by a cylindrical casing through which the water can freely pass. When at the required depth the upper end of the exhausted tube is broken by the motion of a plunger operated by a falling weight. The apparatus is suitable for taking samples from very deep wells or borings of small diameter.

Wills.

Mr. Frank Clark, retired chemist, 143 Wallasey Road, Wallasey, who died on September 18, left estate of the gross value of 1,059*l.*, with net personalty 1,005*l.* 6*s.* 3*d.*

Mr. Edward Rees, J.P., retired chemist, Rhufeinfa, Caersws, Montgomery, who died on July 27, left estate of the gross value of 1,470*l.* 4*s.* 1*d.*, with net personalty 1,410*l.* 0*s.* 8*d.* The testator left his household and personal effects to his son Edward, and the residue of his estate to his sons John and Edward in equal shares.

Mr. Edward Bond, M.A., 43 Thurloe Square, South Kensington, London, S.W., who died at York on August 18, left estate of the gross value of 39,973*l.* 14*s.* 10*d.*, with net personalty 39,207*l.* 15*s.* Among the bequests is 500*l.* to the Provost and Fellows of Queen's College, Oxford, to be applied in their discretion in the promotion of the study of chemistry and the development of chemical research in, or in connection with, that College

Pharmaceutical Society of Great Britain.

North British Branch.

A meeting of the Executive of the North British Branch was held at 36 York Place, Edinburgh, on October 27, Mr. James Jack in the chair. There were also present: Messrs. Arthur, A. Currie, W. L. Currie, Fisher, Forbes, Gilmour, Glass, Guthrie, Jack, Kitchin, McEwan, McLaren, McMillan, McNab, McVitae, Meldrum, and Murray.

British Pharmaceutical Conference.

Mr. Forbes reported that the Liverpool Conference had been well attended, although the number of Scottish delegates was not so large as usual. The local committee had made excellent arrangements which were carried out in a very handsome manner. He felt they were greatly indebted to the Liverpool chemists for a very successful and enjoyable Conference meeting.

Nomination of Examiners.

The Executive considered the report of the Committee for Nomination of Examiners. The following resolution was unanimously adopted:

That Professor Alfred Archibald Boon, Edinburgh; Dr. George Coull, Edinburgh; Dr. Robert Stewart MacDougall, Edinburgh; John Gilmour, Dunfermline; Martin Meldrum, Ayr; John Henry Ramsay, Glasgow; Charles Stephen, Dundee; and Thomas Stephenson, Edinburgh, be nominated for election by the Council as members of the Board of Examiners for Scotland for 1921; and that Dr. Leonard Dobbin, Edinburgh; James Jack, Arbroath; and George Fowlie Merson, Edinburgh, should remain as additional Examiners.

Approved Institutions.

The report dealing with allocation of students and approved of training institutions was considered and agreed to, the institutions approved being: Robert Gordon's College, Aberdeen; the Technical College, Dundee; the Heriot-Watt College, and the Royal Dispensary School of Pharmacy, Edinburgh; the Royal Technical College, Glasgow, for Parts I. and II. of the Qualifying examination. It was decided to recommend to the Council that approval of these training institutions would adequately meet the educational requirements in Scotland, and that under normal conditions there would be more than ample accommodation for pharmacy students in the various districts in Scotland. Several applications for recognition for courses of training for Part I. of the Qualifying examination were considered, and recommendations regarding these applications were agreed upon for submission to the Council.

Divisional Secretaries.

A complete list of nominations for appointment by the Council as divisional secretaries for Scotland for 1921 was approved for transmission to the Council, the only changes being, for Clackmannan and Kinross, Mr. Robert Ormiston, Alloa, in room of Mr. William Dow, Kinross; for Leith district, the County of Midlothian, Mr. Peter Nisbet, 3 Duke Street, Leith, in room of Mr. Alexander Walker, Leith; for Perth City and West Perth, Mr. John Bayne MacDonald, 154 High Street, Perth, in room of Mr. Rose Panton Blair, Perth. Mr. William Dow, who had acted as divisional secretary for the last twenty-seven years, has now retired from business, as also has Mr. Rose Panton Blair, who has acted as divisional secretary at Perth for the last sixteen years.

Evening Meetings.

It was reported that Mr. George Barger, M.A., D.Sc., Professor of Medical Chemistry in the University of Edinburgh, had consented to give the inaugural sessional address on November 19, his subject being "Ergot; its History, Chemistry and Pharmacology."

July and October Examinations.

It was reported that the arrangements made for conducting these examinations and dealing with an abnormally large number of students—544 in July and 254 in October—had worked out smoothly and successfully, and

there was submitted a letter from the secretary expressing for the President, on behalf of the Council, their appreciation of the exceptional work done by the Society's staff at York Place.

Malt and Cod-liver Oil.

There was submitted a letter from Dr. A. K. Chalmers, Medical Officer of Health, Glasgow, drawing attention to a recent case in which a sample of malt and oil on analysis indicated only 2.8 per cent. of oil, and stating that similar samples had been reported, and that the variation in percentage of oil in malt and cod-liver oil, and also in emulsions of cod-liver oil, required attention, with a view to the establishment of some uniform standard, either by action in connection with a revision of the Pharmacopœia, or by requiring vendors to state on the label the percentage of oil contained in the preparation. It had been pointed out to Dr. Chalmers that the British Pharmaceutical Codex formulas for malt and oil, and also for emulsion of cod-liver oil, had been adopted as the standard in the dispensing of all National Health Insurance prescriptions. The British Pharmaceutical Codex had included these preparations precisely for the purpose of furnishing a uniform standard which medical practitioners could secure by prescribing these preparations as "B.P.C." It was agreed to forward to the Council a memorandum indicating the points raised by Dr. Chalmers, and also to draw attention to the desirableness of the definite standard of the B.P.C. being generally adopted by pharmacists throughout the country.

Amended Major Examination Syllabus.

It was remitted to the Education Committee of the Executive further to consider the suggested amended Major examination syllabus with a view to ascertaining the views of those engaged in the teaching of pharmaceutical students and forwarding to the Council any suggestions that seemed desirable.

Tropical Diseases Clinics.

It was reported that, after some delay, definite arrangements had been made by which the dispensing of prescriptions issued by the Ministry of Pensions clinics throughout Scotland should be dispensed by panel chemists under arrangements analogous to those applicable to National Health Insurance prescriptions. Each chemist was instructed to forward such prescriptions at the end of each month, along with his National Health Insurance prescriptions, to the Insurance Committee, so that they would be forwarded to the Central Checking Bureau for pricing. It was explained that certain difficulties had arisen through practitioners ordering mixtures to be repeated twice, or even three times, on the same prescription, although the instruction to practitioners clearly indicated that "repeat" prescriptions should not be allowed. There had also been irregularities in the way of instructing patients to take the prescription to a particular chemist, and also instructing the patient to leave one form with the chemist and take the other to his panel doctor, whereas the arrangement provided that prescriptions were to be dispensed by any panel chemist, and both forms must be retained by the chemist, one being forwarded to the Insurance Committee and the other kept as a record by the chemist. These points had been represented to the Regional Director of the Ministry of Pensions for Scotland, who had undertaken to have matters put on a proper footing.

Service at Night.

It was reported that numerous communications had been received from public authorities, medical practitioners, and pharmacists as to the necessity for some satisfactory arrangements whereby medicines urgently required might be available during the night or outside ordinary business hours. The modern practice of pharmacists residing at a distance from their place of business, and the suspension of night attendance at certain central pharmacies, had given rise to considerable dissatisfaction and hardship. It was agreed to recommend pharmacists, particularly in the cities and larger towns, to consider and carry out some recognised scheme to mitigate the difficulties complained of. In the case of cities and large towns, the idea of district dispensing depôts, plainly furnished and adequately stocked, by a combined arrangement of local chemists, for the special purpose of night service and service out of hours, should be carefully considered.

Dangerous Drugs Act.

The Act was carefully gone over, and various points suggested for consideration in view of the framing of regulations under the Act. It was agreed to submit these points for consideration by the Council in any negotiations as to regulations.

Society's Powers and Functions.

There was submitted a communication from the secretary giving the result of the judgment in the test case of Jenkin *v.* The Pharmaceutical Society. It was agreed to remit to the General Purposes Committee to confer with the Council in regard to any matters arising consequent to this decision, the understanding being that any question of policy would be submitted to the Executive before taking any final decision.

Railway Charges.

There was submitted a communication from Mr. Garrow, Keith, with reference to the hardships involved in exacting the present heavy charges on parcels containing medicine. It was indicated that the minimum charge for sending a small bottle of medicine adequately packed to even the nearest station is 1*s.* 5*d.* at the company's risk and 1*s.* 2*d.* at owner's risk. This bears heavily on many poor people, and is felt particularly in the North of Scotland, where it is a very common practice to have to send bottles of medicine in this way. Prior to the war such parcels cost only 4*d.* each. It was suggested that at least the 25 per cent. over ordinary charges, because the parcel contains glass, should be remitted in the case of medicines, and that a representation to that effect should be made to the Committee now considering railway charges.

Proprietary Medicines Bill.

The Executive considered a special memorandum on this Bill, and the whole situation was carefully reviewed. It was pointed out that while it is called a Proprietary Medicines Bill it really includes all drugs, preparations, or compounds of any description whatsoever to be used, whether externally or internally, for the prevention, cure, or relief of any malady, ailment, infirmity, or disorder affecting human beings. There was a strong feeling that the provisions of the Bill went far beyond the reasonable requirements of any existing evils, and would be a very costly piece of legislation, seriously interfering with the just rights of pharmacists in the ordinary carrying on of their business, as well as the rights of the people in obtaining such drugs and remedies as they desire to purchase. There was much risk also that in practical operation it would greatly increase the irksome and harassing conditions and restrictions already applicable to the business of a chemist and druggist, without any compensating public advantage. There were three proposals which it was deemed should have serious consideration :

(1) That the present Bill should be dropped and the whole situation re-examined by the Ministry of Health in consultation with representatives of the Pharmaceutical Society.

(2) That at the most a short Bill restricted to prohibiting the vending of any medicine or appliance in connection with the use of which there was clear evidence of injury to the public interest was sufficient, and the complicated scheme of registration and regulation involving an inference that registered preparations had some guarantee as reputable preparations, simply because of registration, should be avoided.

(3) That in any case the legislation was directed against quackery and the legitimate carrying on of the business of a chemist and druggist in the supplying of medicines and appliances to the public in the ordinary course of business should be exempted from harassing restrictions and control which should only be applicable to the comparatively small range of preparations known as quack remedies which inflicted injury on the community.

This was all the public business.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Nov. 11.

"THERE are no market prices at present, because there is no business," is the remark made to us from one quarter. This may be an unduly pessimistic view to take, but at the same time the fact cannot be ignored that for genuine business a buyer can within reason dictate his own price to nervous holders who are anxious to liquidate stocks, especially in the pharmaceutical and industrial chemical trades. Home trade continues to buy from hand to mouth, and the export demand continues small. Disconcerting reports in regard to financial conditions in Japan have been received this week, and the Continent is buying but little. The spasms in the American and European exchanges have been more violent than usual, and this adds to the existing feeling of nervousness. As combating the pessimism indulged in, however, the Board of Trade Returns for October record the cold official fact that the United Kingdom exported chemicals, drugs, dyes, and colours to the value of 3,520,536*l.*, which compared with 1,599,522*l.* in the pre-war month of October 1913. Of this amount 393,480*l.* was for actual drugs and medicines, which compares with 198,505*l.* for October 1913. On the surface it would therefore appear that there is plenty of room for a further decline in values, as the quantities exported (with the exception of potassium compounds) are substantially less than in the corresponding period of 1913. Among the changes in drugs and other produce is a weaker feeling in Cape aloes, balsam Peru, Honduras sarsaparilla, galls, Carnauba wax, and Japaneso camphor. Menthol improved a little towards the end of last week, and closes steady. Belladonna root is scarce; ipecacuanha continues neglected. Canary, lin, and fenugreek seeds are lower; anise is steady. Linseed oil and turpentine are lower. Cocoa butter is easier and shellac quiet, with futures lower. Saffron is higher. The changes in essential oils, pharmaceutical and industrial chemicals, etc., are given under their respective headings :

Higher	Firmer	Easier	Lower
Coca leaves (Amst. auction)	Honey	Acetanilide	Benzonaphthol
Saffron	Lemongrass oil (forward)	Albumen	Bergamot oil (forward)
	Methyl salicylate	Aloes (Capc)	Betanaphthol
		Ammon. benzoate	Canary seed
		Arsenic	Caraway oil
		Aspirin	Cinnamon-leaf oil (Cey.)
		Balsam Peru	Clove oil
		Barbitone	Coumarin
		Benzoic acid	Cream of tartar
		Caffeine (pure)	Fenugreek seed
		Camphor (Jp. ref.)	Galls, Ch. and Persian
		Cinnamon	Glucose
		Citronella oils	Heliotropine
		Cloves (Zan.)	Hexamine
		Cocoa butter	Lemon oil
		Epsom salt	Linseed
		Farina (Jp.)	Linseed oil
		Formaldehyde	Naphthalenes
		Gallic acid	Orange oil
		"H" acid	Paraldehyde
		Juniper-berry oil	Pepper
		Juniper-wood oil	Sarsaparilla (Honduras)
		Methyl sulphonal	Sodium sulphide
		Palmarosa oil	Turpentine
		Phenacetin	Wax, Carnauba
		Tartaric acid	Wormseed oil

A Drug Auction will be held on Thursday, November 18.

Cablegrams.

AMSTERDAM, November 11.—At the auction of Java coca leaves held to-day the equivalent of 4,056 kilos. total alkaloids offered, of which 1,310 kilos. sold. The average unit paid was 26.11c. per half-kilo., compared with 25.18c. paid at the October auction.

NEW YORK, November 9.—Business continues quiet. The following products have been offered at lower prices : Quinine is 10c. cheaper at 70c. per oz. for domestic. Morphine sulphate has been reduced to $6.90 per oz., codeine sulphate to $8.37 per oz. Menthol is cheaper, $5.40, and senega is $1.08. Balsam Peru is $2.75, phenacetin is $2.10, and refined camphor $1.25 per lb.

London Markets.

ALMONDS.—The market is well supplied owing to arrivals of good-sized quantities from Sicily. Forward prices for Sicily and Valencia are lower.

ALOES.—Cape has been selling at rather easier prices. Good hard bright is obtainable at 76*s.* and ordinary at 72*s.* per cwt. Good pale Curaçao liver is held at 120*s.* per cwt. and ordinary at 75*s.*, and for good Secotrine in skins 15*l.* per cwt. is wanted.

ANISE is steady at 87*s.* 6*d.* per cwt. for Russian, and 92*s.* 6*d.* for good Spanish.

ANTIMONY.—There is practically nothing doing : crude is quite nominal at 33*l.* per ton ex warehouse. Foreign refined is quoted 40*l.* c.i.f., with 2*l.* more wanted for stock lots.

BALSAMS.—*Peru* is easier at 17*s.* 6*d.* per lb. on the spot. *Tolu* is unchanged at 4*s.* 6*d.* *Copaiba* of B.P. quality is 3*s.* 6*d.*

BELLADONNA ROOT is offered on the spot at from 1*s.* 4*d.* to 1*s.* 6*d.* per lb. Supplies are temporarily scarce.

CAMPHOR (REFINED).—Japanese refined slabs are slightly easier, with spot sales at 5*s.* 6*d.* to 5*s.* 9*d.* per lb.

CANARY SEED is lower at 165*s.* per quarter for good Morocco on the spot.

CARAWAY SEED is quiet at 38*s.* to 39*s.* per cwt. for good Dutch on the spot, and at 22*s.* 6*d.* for North African.

CASCARA SAGRADA.—The London stock in first-hands on October 31 was 66 tons, against 87 tons in October 1919. Spot holders maintain their price at 98*s.* per cwt. for three-year-old bark.

CLOVES remain dull, with sellers of Zanzibar at from 1*s.* 5*d.* to 1*s.* 6*d.* per lb. on the spot as to quality and at 1*s.* 2*d.* c.i.f. for October-December shipment. At auction 59 bags Amboyna were bought in at 1*s.* 9*d.* for fair.

COCOA BUTTER is ½*d.* per lb. cheaper, with sellers of prime English at 2*s.* 5*d.* per lb. in lots of not less than one ton.

COD-LIVER OIL.—There appears to be rather more inquiry for Norwegian, agents for which quote from 240*s.* to 255*s.* per barrel c.i.f. London; the spot value is from 260*s.* to 270*s.* per barrel for finest brands of medicinal oil.

CORIANDER SEED is unchanged at 19*s.* to 21*s.* per cwt. for fair to good sound Morocco.

COUMARIN can be had at from 20*s.* to 21*s.* per lb. from the Continent.

CUMIN SEED is slow of sale. The quotation for good sifted Morocco is 32*s.* 6*d.* per cwt.

DAMIANA LEAVES are steady at 1*s.* 2*d.* per lb. on the spot, and for November-December shipment 11½*d.* c.i.f. has been paid.

DILL SEED is quoted at from 25*s.* to 27*s.* 6*d.* per cwt. for East Indian.

EGG PRODUCTS remain flat. Chinese prime hen-yolk is offered at 80*s.* per cwt. for old, 102*s.* 6*d.* for new, and at 90*s.* c.i.f. for December-January shipment. Dried yolk is 8*d.* per lb. on the spot, sprayed whole egg 1*s.* 4*d.*, and native dried whole 9*d.* per lb. spot. Prime hen *albumen* is 4*s.* 7*d.* per lb. on the spot, and December-January shipment 4*s.* 3*d.* c.i.f.

FARINA meets with a slow sale, Japanese No. 1 offering at 28*s.* 6*d.* per cwt. and November-January shipment at 26*s.* c.i.f.

FENNEL SEED is steady at 37*s.* per cwt. for ordinary East Indian.

Fenugreek Seed is lower at 14*s.* per cwt. for fair Morocco on the spot; for large quantities a lower price would be accepted.

Galls.—Persian remain in good supply, and rather cheaper, with good blue obtainable at 110*s.* per cwt. on the spot; Chinese are also easier, plum-shaped offering at 165*s.* on spot and afloat at 140*s.* c.i.f.; ordinary shape can be had at 150*s.* spot and afloat at 130*s.* c.i.f.

Ginger.—Cochin is quiet, with a weak undertone, and the small supplies of Jamaica are held at prohibitive prices. African and Japanese continue neglected. At auction 48 packages fair washed slightly wormy Cochin sold at 65*s.* per cwt.

Glucose.—American liquid is cheaper, offering at 50*s.* per cwt. for November and 47*s.* 6*d.* for December, duty paid, landed terms.

Grindelia Robusta.—The spot value is 1*s.* 1*d.* per lb., with slightly more inquiry.

Heliotropine is weak and lower, with offers from the Continent at 20*s.* to 22*s.* per lb. to come forward.

Honey of the better grades has been selling at rather better prices lately, in spite of the drop in sugar. New crop pale set Jamaica has been fetching 75*s.* per cwt. and ordinary amber set at 65*s.*, Cuban at 75*s.* down to 60*s.*, and San Domingo at 70*s.* to 62*s.* 6*d.* Californian is 110*s.* for good white and 95*s.* for pale amber set.

Ipecacuanha continues neglected, and, in view of the large stocks, prices should be cheaper at next week's auctions. Matto Grosso is 13*s.* to 14*s.*, Minas 13*s.*, and Cartagena 12*s.* 6*d.* per lb.

Linseed is lower at 37*s.* per cwt. for good Dutch.

Linseed Oil.—The tendency has again been downward, due to dull trade, although the market has been somewhat erratic. The industrial unrest has had as much to do as anything else with the prevailing idleness. Spot closes at 64*l.* per ton naked and Hull at 62*l.* 10*s.* naked, being about 3*l.* lower on the week.

Manna.—Large flakes are quoted at 5*s.* 1½*d.*, small at 3*s.* 4½*d.*, and sorts at 2*s.* 6*d.* per lb. on the spot.

Menthol has been steady on the spot, with sellers of Kobayashi-Suzuki at 28*s.* 6*d.* to 29*s.* per lb. on the spot, as to quantity; to arrive, January-February shipment is quoted at 18*s.* 6*d.* c.i.f.

Mercury.—Although imports have continued very light, there is no robust feeling of confidence in the market at present, while the home demand is quiet, and inquiries for export are limited to a few small lots. It is now more than four months since the last big consignment came in from Spain, while the delay in the receipt of normal supplies from that quarter is probably due to the comparatively reduced outlet, and some dealers thus suspect that the unshipped surplus in that country has been accumulating in recent months. Current quotations have remained at 15*l.* 10*s.* to 16*l.* per bottle. The demand in America is also quiet, and apparently adequately met by the consignments from the Pacific Coast.

Pepper is dull and prices easy, fair black Singapore offering on the spot at 5½*d.* per lb.; November-January and January-March at 5½*d.* c.i.f. Lampong is 5⅝*d.*, Tellicherry at 7*d.*, and Aleppy 6¼*d.* per lb., all spot. *White* pepper is easier, fair Muntok offering at 1*s.* 2*d.* on spot; November-January and January-March shipment has been sold at 11*d.* per lb. c.i.f., closing with sellers at 10⅞*d.* c.i.f. Singapore is 1*s.* 1½*d.* and November-January shipment 10½*d.* per lb. c.i.f. spot.

Pimento is quiet, with spot sellers at 3¾*d.* per lb.

Rhubarb.—The London stock in first-hands on October 31 was 990 cases; the deliveries during October were 43 and the landings 73 cases. Values are somewhat nominal on the spot, but the auction next week will fix prices.

Saffron.—As has already been announced in these columns (*C. & D.*, October 9, p. 95), the new Spanish crop is the smallest on record; and as a result the expected advance in price has taken place, closing quotations being actually 8*s.* 4*d.* per lb. more than at the corresponding period last year. The depreciation in the rate of exchange, however, which is in favour of this country, makes the actual value 4*s.* per lb. higher. New crop to arrive is now quoted at 75*s.* per lb. for the "superfine" quality, and 70*s.* "current superfine" c.i.f. There is practically none of the finer qualities in importers' hands at present, but inferior grades can still be had on spot down to 65*s.*

Sarsaparilla.—The auctions next week will fix values; and as sellers are anxious to make progress in view of the large stocks, easier prices should be seen. Grey Jamaica is nominally 3*s.* 3*d.*, Lima 2*s.* 9*d.* to 3*s.*, and native Red Jamaica 2*s.* 3*d.* to 2*s.* 6*d.* Honduras is cheaper at 3*s.* 9*d.* The London stock in first-hands on October 31 was 941 bales; the arrivals during October were 131 bales, and the deliveries 73 bales.

Shellac has been quiet throughout, the spot value of usual standard TN quality being 610*s.* and off-standard 585*s.*; fine lemon is 800*s.*, fine second Orange 680*s.* to 690*s.*, pure button 700*s.*, Kala 40*s.*, and AC cakey 520*s.* per cwt. The delivery market is lower, the sales including December at 540*s.* to 520*s.* per cwt.

Squill has been selling at cheaper rates of late. Good to finest pale can be had at from 50*s.* to 55*s.* per cwt., and ordinary at 35*s.* per cwt.

Turpentine.—The position is rather unsettled, with a more subdued demand from consumers, who strictly adhere to hand-to-mouth buying, while there is a distinct lull in speculative enterprise under indifferent American trade advices. The landings here in the past month were comparatively small, and, with rather good deliveries, the London stocks were reduced to below 25,000 barrels. The spot market closed on Wednesday at 117*s.* per cwt., compared with 124*s.* 6*d.* a week ago.

Vanillin continues easy at 61*s.* per lb.

Waxes.—*Carnauba* is lower on spot, fatty grey offering at 165*s.* per cwt., and chalky at 160*s.* *Japanese* is steady, with spot sellers at 115*s.* per cwt.

Pharmaceutical Chemicals.

Business remains almost at a standstill in this group, there being practically no buyers, and values as a rule continue to decline. Many products are now offered at less than the cost of manufacture, and it is understood that a number of the quotations given below are nominal. The prices we quote, however, are fair average values, and ignore those instances where holders are making forced sales. The whole of the pharmaceutical section, however, is weak, and easier rates apply to acetanilide, aspirin, barbitone, caffeine, gallic acid, phenacetin, benzonaphthol, betanaphthol, hexamine, and tartaric acid.

Acetanilide is slightly easier, at from 2*s.* 10*d.* to 3*s.* per lb. in bulk packing.

Aspirin is quiet. Re-sellers offer at from 4*s.* 5*d.* to 4*s.* 8*d.*, per lb. as to quantity. English makers quote 4*s.* 6*d.* upwards.

Benzoic Acid ex toluol is lower to arrive, barrels offering at 2*s.* 6*d.* per lb. c.i.f.; spot is from 2*s.* 9*d.* to 3*s.*

Benzonaphthol is cheaper, importers offering at from 12*s.* to 12*s.* 6*d.* per lb.

Betanaphthol.—Resublimed is rather cheaper, importers offering at 5*s.* 3*d.* per lb.

Bromides.—The average price for potassium crystals or powder for trade purposes is 1*s.* 3*d.* per lb. Sodium is still 1*s.* 6*d.*, and ammonium 1*s.* 9*d.* per lb.

Caffeine.—Pure is weak and easier at 40*s.* per lb. from importers. Makers' price is 45*s.*

Calcium Lactate is weak at from 4*s.* to 4*s.* 6*d.* per lb. according to quantity.

Citric Acid remains neglected at the previous quotations of from 3*s.* 3*d.* to 3*s.* 5*d.* per lb.

Gallic Acid.—Cheaper galls have led to an easier market, pure crystals offering at from 6*s.* 6*d.* to 7*s.* per lb. on the spot, but to arrive 8*s.* 3*d.* c.i.f. is asked from the U.S.A.

Hexamine is offered at from 10*s.* 6*d.* to 11*s.* per lb., being about 6*d.* cheaper.

Methyl Sulphonal is easier at from 30*s.* to 31*s.* per lb.

Paraldehyde is rather lower, importers offering at 3*s.* 6*d.* per lb. in bottles in cases and less for quantity.

Phenacetin is rather lower at 12*s.* 6*d.* per lb.

Phenazone shows no change at 12*s.* per lb., but value is somewhat nominal.

Pyrogallic Acid.—Crystals in cwt. lots offer at the reduced price of 10*s.* 6*d.* per lb., and smaller lots at 11*s.*

Resublimed is 12*s.* to 12*s.* 6*d.* The principal consuming season is now over.

QUININE.—Makers' price of sulphate in 1,000-oz. lots remains at 4*s.* 1*d.* per oz., but the scale for smaller quantities has been slightly reduced. Hydrochloride from dealers is offered at 4*s.* 9*d.* per oz.

SALICYLATES.—Salicylic-acid powder is unchanged, imported offering at from 2*s.* to 2*s.* 3*d.* per lb. as to quantity and seller. Sodium salicylate is 3*s.* to 3*s.* 1*d.* for powder and slightly less for quantity.

SALOL is offered at about 4*s.* 6*d.* per lb.

SULPHONAL remains at about 30*s.* per lb., but there are occasional isolated quotations at less.

TARTARIC ACID.—The recent demand having been satisfied the market has now relapsed, and from 2*s.* 5*d.* to 2*s.* 7*d.* is quoted on the spot.

The following are all very quiet and unchanged. Barbitone, 20*s.*; amidopyrin, 27*s.* 6*d.*; ammon. benzoate, 10*s.*; chloral hydrate, 6*s.*; creosote carbonate, 22*s.* per lb.; creosote ex beechwood, 8*s.* 9*d.* to 9*s.* 6*d.*; guaiacol carbonate, 22*s.*; methyl sulphonal (trional), 30*s.* to 31*s.* per lb.; sodium diethylbarbituric, 35*s.*; and terpin hydrate, 6*s.* 9*d.* per lb.

Heavy Chemicals.

November 10.

THERE is very little change in the tone of the market to record this week. Business continues to be very small, and there is keen competition for the few orders passing. Values generally are about the same as last week, the few alterations showing further declines. Some export business is being done. Saltcake is being frequently inquired for.

ACETIC ACID is quiet, and is quoted the same as last week. Glacial at 94*l.* and 80 per cent. pure at 79*l.*

ALUM.—Lump is only in small demand at about 20*l.* per ton in casks.

ARSENIC.—Buyers seem to have vanished, and where offers are somewhat pressed, white Cornish lots might be picked up at around 76*l.*, although the chief agents quote 77*l.* 10*s.* per ton, which is a nominal figure, for delivery London or Liverpool. There is virtually no consignments available from Australia, while the few parcels occasionally coming in are already sold beforehand. The tendency of the market is distinctly downward.

BARYTES is steady, with little movement, prices ranging from 15*l.* for best white material to about 6*l.* 7*s.* 6*d.* per ton for grey.

COPPER SULPHATE.—Makers are quoting to-day at 41*l.* 10*s.* per ton in casks and 40*l.* 10*s.* in bags. Values are slightly easier, and the market has not been in any way brisk, no business of any importance having been recorded.

CREAM OF TARTAR is lower, Continental powder of B.P. quality offering at 200*s.* per cwt. When the Australian demand revives an improvement is expected.

EPSOM SALT is being offered at about 12*l.* 17*s.* 6*d.* per ton for commercial in bags, but there is only small demand.

FORMALDEHYDE continues very unsteady, and quotations still vary from 210*l.* to 220*l.* per ton; there is no great demand.

GLAUBER SALT continues steady at about 8*l.* 12*s.* 6*d.* per ton, with some inquiry.

LEAD PRODUCTS.—There has been no alteration in either white lead or oxides, which continue in quiet demand, but consumers appear to have yet a good deal of material to draw against old contracts. The tendency of raw material has been easier, but there is, nevertheless, a scarcity of metal for immediate delivery which commands a considerable premium.

LITHOPONE is dull; 30 per cent. Continental Red Seal offering at about 42*l.* per ton.

OXALIC ACID is weak; good supplies are offering at about 2*s.* per lb., but there is very little business passing.

POTASH BICHROMATE on spot is offering at about 1*s.* 7*d.* per lb., with but little demand.

POTASH CAUSTIC is on the quiet side; 88 to 92 per cent. is obtainable at about 98*l.*

POTASH CHLORATE shows some inquiry for crystals and powder, which are quoted at 11*d.* and 10½*d.* per lb. respectively.

POTASH PERMANGANATE is in good supply, with very small demand for commercial at about 3*s.* 1*d.* and 3*s.* 2*d.* per lb.

POTASH PRUSSIATE.—Red is very quiet, and nominally quoted at about 3*s.*

POTASH SULPHATE remains steady at about 30*l.* for 88 to 90 per cent.

SALTCAKE is moving slowly for export at about 16*l.* per ton in bulk and 16*l.* 10*s.* in bags f.o.b.

SODA ASH is offering on spot at 15*l.* for 58 per cent. light alkali, but there is not a good demand.

SODA BICHROMATE remains unchanged at 1*s.* per lb.

SODA BICARBONATE is quiet; refined material is on the market at about 13*l.* per ton, but there is only very small inquiry.

SODA CAUSTIC remains quiet; 70 to 72 per cent. in drums is offered at about 30*l.* per ton, with only a small demand.

SODA CRYSTALS are offered at 9*l.* 10*s.* on spot.

SODA CYANIDE is being called for from America, and is being quoted at about 11½*d.* per lb. for 100 per cent. basis.

SODA HYPOSULPHITE.—Pea crystals are in fair demand and short supply at about 37*l.* per ton in kegs.

SODA NITRITE is dull, offering at about 100*l.* per ton.

SODA SULPHITE is almost inactive; 60 to 62 per cent. anhydrous material offering at 44*l.* per ton, with no movement.

SODIUM SULPHIDE has eased during the week; there is only small demand for supplies of 60 to 62 per cent., offering at about 41*l.*

TIN CRYSTALS are quiet, with best English obtainable at about 1*s.* 10*d.* per lb.

TITANIUM.—White is about 142*l.* per ton delivered U.K.

ZINC PRODUCTS.—Zinc ashes remain inactive at last week's figure of 9*l.* for 70 per cent. zinc. Zinc dust continues quiet, foreign material (88 to 92 per cent.) offering at about 74*l.* English material, 92 to 94 per cent., as last week, at 80*l.* Zinc chloride is unchanged at about 50*l.* Zinc oxide remains unusually quiet, with values fairly well maintained—Green Seal at 62*l.*; Red Seal at about 58*l.*; and Blue Seal about 45*l.* per ton.

Among the coal-tar products, etc., business is very small on a dull market and values unsteady. Beta-naphthol is lower and dull at 3*s.* per lb. in casks. "H" acid is quiet and a little easier at 10*s.* 6*d.* per lb. The following are quiet and unchanged: Aniline oil and salt at 1*s.* 9*d.* and 2*s.* per lb. respectively. Benzol, pure, 4*s.* 6*d.*; 90's, 4*s.* 1*d.*; 50's, 3*s.* 6*d.* per gallon. Creosote oil, 1*s.* 6*d.* per gallon. Carbolic-acid crystals, 11*d.* per lb. Cresylic acid, 97 to 99 per cent., 5*s.* 6*d.*; crude, 4*s.* 2*d.* per gallon. Naphthaline candles are lower at 65*l.*; tablets are also lower at 68*l.*; crude (crystals and powder) are the same as last week. Pitch, 12*l.* per ton, and coal tar, 4*l.* 15*s.* per ton.

Essential Oils.

THE stagnation in trade continues, and where business is done buying is of quite retail dimensions. As a result, dealers are reluctant to quote, and the present position appears to be that any reasonable offer would be met. Sicilian oils to arrive have all declined, and spot business is of very meagre proportions, with quotations about last week's level, although now and again we hear of exceptionally low prices for lemon. There is no demand for lemongrass oil, which is described as firmer forward, but this is not likely to affect the present spot position, as fair supplies are available. Citronella oils are tending lower; palmarosa and juniper oils are also on the easy side. Ceylon cinnamon-leaf oil, clove and worm-seed oils, have moved in buyers' favour.

ANISE (STAR) continues quiet with sellers of "Red Ship" brand at 3*s.* 9*d.* per lb.

BAY is dull, and spot holders quote 26*s.* to 26*s.* 9*d.* per lb. for spot according to origin.

Bergamot.—Spot quotations are nominally unchanged at 34*s.* to 35*s.* per lb. for 37/38 l.a. As a result of the rate of exchange against Italy, c.i.f. quotations are lower at from 28*s.* to 34*s.*

Camphor remains firm with holders of Japanese white essential quoting 220*s.* per cwt. Sales have been made, however, at 215*s.*, and a parcel afloat is offered at 180*s.* landed. Quotations for December shipment are made at considerably less, but in the present state of the market forward offers are not receiving much attention.

Cassia.—Spot sales of 80-85 per cent. c.a. have been made at 7*s.* 3*d.* per lb., with 7*s.* 4*d.* quoted for smaller quantities.

Cinnamon.—Ceylon leaf is lower with spot offered at 7½*d.* to 8*d.* per oz.

Citronella.—Ceylon is slightly easier at 2*s.* 2*d.* to 2*s.* 5*d.* per lb spot, with pure about 2*d.* per lb. more. Java is also weaker at from 4*s.* 9*d.* to 4*s.* 10½*d.*

Clove.—English distilled is lower at 12*s.* 6*d.* per lb. spot, net from distillers.

Gingergrass.—Small quantities of "insoluble" sell at from 23*s.* to 24*s.* per lb. Forward offers have been made at 20*s.* to 21*s.* c.i.f., but these prices are higher than was anticipated, and importers do not appear able to explain the enhanced ideas of value. Lower bids would probably be cabled.

Juniper Berry.—B.P. oil is easier on spot at about 14*s.* 6*d.* per lb., but some holders are offering at considerably inside this figure. *Wood* oil is cheaper at 4*s.* 6*d.* per lb. spot.

Lemon.—There is not much demand, and on spot prices remain nominally unchanged at 5*s.* 6*d.* to 5*s.* 9*d.* per lb. Forward quotations are easier following the downward movement in Italian exchange from 5*s.* 6*d.* to 5*s.* 9*d.* c.i.f. being mentioned.

Palermo reports on November 4 that there is practically no change. Holders continue to be firm, and what little business is done is at full prices. Buyers also show little desire to foree operations. The upward movement of the foreign exchange continues ,and figures in foreign currency can consequently be still further reduced.

Lemongrass to arrive is quoted firmer at 7¼*d.* per oz. c.i.f., but spot is unchanged at 8*d.*, and there is said to be sufficient on hand to satisfy requirements for some time.

Lime.—Business has been done in West Indian distilled at 4*s.* 6*d.* per lb., and 5*s.* per lb. is now asked in some quarters for spot.

Linaloe.—Mexican wood is nominal at 33*s.* per lb. for good quality, but not quite tip-top is offered at 22*s.* 6*d.* per lb. spot in original casks.

Mint.—Sales of Japanese dementholised were made towards the end of last week at from 6*s.* 4½*d.* to 6*s.* 6*d.* on spot for Kobayashi-Suzuki, being rather firmer, but the improvement was not maintained, and this week 6*s.* 4½*d.* is quoted. To arrive is offered at 5*s.* 6*d.* c.i.f.

Orange.—Some dealers place the value of Sicilian sweet at 20*s.* to 25*s.* per lb., but prices are most unstable, and in view of the offers which are being made at the source for forward shipment it is probable that holders would be willing to shade even these prices if firm offers could be found. Forward quotations to arrive are made at from 14*s.* 6*d.* to 17*s.* 6*d.* c.i.f.

Palmarosa in original pots is on the easy side at 22*s.* 6*d.* per lb. spot.

Peppermint.—American tin oil is quoted at 33*s.* to 40*s.* per lb. according to holder. B.P. (Dutch) oil containing 53.6 per cent. menthol is offered at 17*s.* 6*d.* spot, and prompt shipment. French distillate is offered to arrive at 37*s.*

Petitgrain.—Paraguayan is firm at 26*s.* to 28*s.* per lb. spot, and forward at 25*s.* to 25*s.* 6*d.*

Rosemary.—Spanish is nominal with spot holders quoting 4*s.* to 4*s.* 3*d.* per lb.

Sandalwood.—Mysore Government oil (B.P. quality) at 50*s.* per lb. spot in 5x case lots. Offers have been made of B.P. "Mysore" (not Government) containing 90.35 santalol at 42*s.* c.i.f. London. Australian is quoted at 23*s.* per lb with sellers at less. For West Indian spot holders give 27*s.* per lb. as the price.

Spike.—There is little demand, and while the spot quotation for Spanish holds around 7*s.* 9*d.* per lb., large lots have been offered at an inside figure and were not accepted.

Wormseed is lower at 56*s.* to 60*s.* per lb. for spot, sales having been made around these prices during the week.

Hamburg Drug Market.

November 1.

"Broken by the war, Europe now counts numerous States going about on crutches, differing from one another but slightly as regards their incapacity. This is but a slight consolation for Germany, which must be included among the weakest of these States from a financial point of view, and at Brussels they were very plainly given to understand that, being Germany, they had to help themselves. However, the question of the necessitous condition of Germany is by no means a purely German one, as one of the postulates of restoring the economic life of Europe is the removal of this state of affairs in Germany. Without the restoration of Germany it is impossible to envisage a satisfactory solution of the financial questions. One cannot ask a cow to supply milk after cutting its throat."

"Business in foodstuffs and in drugs has recently assumed a satisfactory aspect. Orders to meet actual requirements are plentiful, and exports are on the increase, with more concrete results owing to greater facilities in exporting. Prices show a rising tendency in consequence of the depreciation in the value of the German currency, and the same applies to manufactured goods which are dependent upon coal supplies."

The following quotations refer to orders for original packages; for post parcels an extra charge is made. Prices for export are from 5 to 10 per cent. higher. Prices are in marks for one kilogram:

Acetic Acid.—Glacial (98-100 per cent.) remains scarce at m.16; 80 per cent. is quoted at m.12 for home orders and m.13.50 for export. The demand is increasing.

Alkanet Root.—The small harvest and good export orders at m.20 tend to advance the price.

Ammonium Chloride.—White (98-100 per cent.), in spite of improved demand, is unchanged at m.8.

Balsam Peru.—A consignment of genuine balsam offered at m.425 has aroused interest among home and foreign buyers, and stocks are running low, without any prospect of being replenished.

Benzaldehyde, almost free from chlorine, for foodstuffs, is in regular demand at m.85. Supplies by manufacturers are not very plentiful. Special prices for quantities of 500-1,000 kilos.

Benzoic Acid finds regular buyers at m.59.

Borax.—While supplies are becoming scarce the demand is increasing, particularly for industrial purposes, and it shows a rising tendency at m.12.50 for crystals and granular and m.13 for powder.

Boric Acid.—The demand is satisfactory at m.22.50 for crystals and m.23 for scales, but supplies are very scarce.

Buckthorn Bark.—After America and other foreign countries had purchased large amounts the price in Germany advanced to m.14 for quilled pieces and m.16 for cut bark.

Caffeine.—Pure has recently advanced slightly to m.1,000.

Caffeine Sodio-Benzoate and Caffeine Sodio-Salicylate remain unchanged at m.500.

Castor Oil.—Business is now brisk, so that first pressing fetches m.25, second pressing m.22.50, for orders for original barrels of about 170 kilos., and stocks are low, since fresh consignments are difficult to obtain.

Cifeic Acid.—In spite of the advanced season is selling well at m.90. Export orders have recently increased considerably.

Clove Oil.—Genuine is obtainable in small amounts at m.425.

Coumarin is being purchased only in small amounts at m.450. Larger quantities could be supplied at m.440.

Cream of Tartar (99-100 per cent.) is extremely firm at m.38, as the increasing demand is not being compensated by sufficient supplies from manufacturers. A 95 per cent. article is obtainable for m.35.

Dextrin is in constant demand, and it is scarcely possible to obtain sufficient uncontrolled dextrin to meet all demands at m.11 for white, m.10.50 for fine yellow, and m.9.50 for ordinary yellow.

Fennel Seed.—German exhibits a tendency to rise in view of the increasing prices demanded by producers, and is now quoted at m.9.50, while Levantine is unchanged at m.7.

Gentian Root is obtainable at m.12.50.

Glycerin.—The sale has improved owing to the increased demand for the autumn and winter, while supplies are not plentiful. It is now firm at m.32, with a tendency to advance.

HELIOTROPINE.—On'y small transactions have taken place at m.450.

LEMON OIL.—The price in Italy shows a rising tendency, and on the Hamburg market the price has advanced to m.140.

MAGNESIUM CARBONATE.—Precipitated, white, light is readily sold at m.14, in cases of about 50 kilos. exclusive.

MENTHOL.—The small consignments which have come in have been quickly taken up by consumers, so that m.850 is being paid for orders of one case or more, and m.875 for smaller amounts.

MILK-SUGAR.—Owing to the extension of foot and mouth disease and the resumption of stable feeding the present price of m.31 is likely to advance soon, which will particularly be the case if the demand for the delivery of 610,000 milch cows has to be carried out.

SALICYLIC ACID remains at m.50, without being much in demand, transactions being confined to ordinary orders to meet daily requirements.

SODIUM BENZOATE is in regular demand at m.56.

SODIUM BICARBONATE is now firm in consequence of the increased autumn demand and larger orders for export. The price for the home market is m.2.25 and for export m.3.25.

SODIUM SALICYLATE is scarce at m.60.

STRAMONIUM LEAVES.—Large transactions for export have taken place at m.25.

TARAXACUM ROOT.—This year's harvest apparently does not come up to expectations, and home sellers have difficulty in meeting their obligations as to supplies, and are unwilling to sell even at m.25.

TARTARIC ACID has been freely sold at m.56 for powder. Crystals are scarce, and command m.60. The tendency is firm, particularly in view of the depreciated currency, which reflects on the purchase of the necessary crude cream of tartar abroad.

THYMOL has once more been manufactured in moderate amounts, and is quoted at m.1,500, at which price it is being readily purchased.

VANILLIN.—Although manufacturers have recently advanced the price to m.1,650, they are by no means able to meet the increasing demand. A small stock is available at m.1,640, at which price it is advisable to buy.

Olive Oil Crops.

The olive oil crop obtained in the Mediterranean countries during the season 1920-1921 has been estimated at 907,000m. tons. The following countries have contributed to this total: Portugal, 35,000 tons; Spain, 10,000 tons; France, 210,000 tons; Algeria, 15,000 tons; Italy, 150,000 tons; New Greece, 70,000 tons; Tunis, 15,000 tons; Morocco, 12,000 tons; other countries, 80,000 tons.

Italian Olive Oil Crop.

Genoa, October 26.

During October there was a movement for obtaining the removal of the exportation prohibition on olive oils, but it met with no success. Such prohibitions not only forbid transit across the different frontiers or overseas, but also the transit from province to province. The drought that had caused a very general falling-off of the olives several months ago was followed by the olive-oil "fly," and in some few cases by the olive-oil moth, during October, and this reduced further the size of the olive-oil crop being collected, and still to be gathered. The quality of the olives, however, in many instances show a very good yield of olive oil of first quality. The price of the olives of the new crop sold during October ranged towards 11 lire the double hectolitre. At Bari, in the extreme south of the peninsula, the pickling of the olives in salt water was initiated, the pickled product being offered at 400 lire per 100 kilos. The prices quoted during October for the various qualities or brands of olive oil in the different provinces of Italy were as follows:

Porto Maurizio.—Superfine Riviera, 15.50 lire; eatable Riviera, 14.50 lire; Puglia Bitonto, 15.00 lire; Bari, 14.50 lire; Fasano, 15.00 lire; Lecce, 14.00 lire; Calabria Gioa, 15.50 lire; Rossano, 15.00 lire; etc.

Pisa.—Oils of the Pisa mountains, 14.00 lire; Riviera ponente, new, first quality, 14.75 to 15.00 lire; Bari, "extra," 14.70 to 15.00 lire; Molfetta, "extra," 15.00 to 15.20 lire; Calabria oil, fine, 14.50 lire; refined deodorised, eatable, 14.80 to 15.00 lire; burning olive oil, 8.50 to 9.00 lire per kilo.

Bergamo.—Olive oil of first quality, 16.00 to 16.50 lire; second quality, 10.50 to 11.00 lire; etc.

Cuneo.—Olive oil, first quality, 15.00 to 16.00 lire; second quality, 12.00 to 14.00 lire.

Foreign Olive Oils.—Spanish Aragon, 560 to 570 pesetas per 100 kilos; Andalusian oils, 480 to 500 pesetas; Malaga oils, 425 to 440 pesetas.

Arrivals of Drugs, Chemicals, etc.

The following produots have arrived at the ports named:

(Liverpool)

(October 18 to 23).

Chemical products, etc.: Barytes (It.), 685 bgs. 200 brls. Bismuth ore (Ch.), 102 bgs. Calc. acct. (U.S.), 8,030 bgs. Formaldehyde (Jp.), 74 brls. Pot. chlorate (Jp.), 400 pkgs. Pot. nit. (Belg.), 10 cs. Potash salts (Germ.), 50 cks. Soda bichrom. (N.Y.), 90 cks. Soda nit. (Chile), 11,114 bgs. Sulphur (Sic.), 1,325 bgs. Tartar (It.), 25 bgs. Tartaric acid (It.), 160 cs.

Drugs, crude, etc.: Herbs (N.Y.), 14 pkgs. Cascara (N.Y.), 767 bgs. Cinchona (Mollendo), 269 bls. Cod-liver oil (St. John's, N.F.), 496 pkgs. Quillaia (Chile), 228 bls. Tuba root (Straits), 45 bls.

Dyes, dyeing, and tanning materials, etc.: (N.Y.) 28 brls. 27 drms.; fustic (N.Y.), 44 brls; hematin (U.S.), 25 brls.; logwood ext. (W.I.), 875 cks; myrabolans (E.I.), 2,702 pockets 1,334 bgs.; sumac, (Sic.) 1,250 bgs., (Alex.) 82 bls.; valonea (Smyr.), 130 sks.

Egg products (Ch.): Albumen, 112 cks. 280 cs.; yolk, 563 brls. 1,727 cks.

Gums, resins, etc.: Copal (Antw). 100 bgs.; damar (Straits), 50 cs.; gambier (Straits), 104 bgs.; lac: shell (E.I.), 25 chts.; resin (U.S.), 2,234 brls.

Honey (Chile), 343 brls.

Lithopone (Belg.), 140 brls.

Magnesite (E.I.), 3,010 bgs.

Oils, essential: (Sic.) 19 cs. 8×$\frac{3}{4}$ cs.

Oils, fixed: Cotton, (Norw.) 460 drms. 260 brls., (N.Y.) 50 brls.; palm (W. Af.), 2,673 cks.; tea (Ch.), 1,000 cs.

Seeds: Castor (Santos), 151 bgs.; cotton, (W.I.) 5,148 bgs., (Egypt) 930 bgs., (S. Amer.) 11,161 bgs.; ground-nuts (W. Af.), 11,165 bgs.; illipe (Straits), 7,684 bgs.; lin, (R. Plate) 3,556 bgs., (E.I.) 13,310 bgs.; palm. kern. (W. Af.), 79,701 bgs. 225 tons

Pepper (Straits), 315 bgs.

Waxes: Bees' (Chile), 3 sks.; paraffin (U.S.), 4,028 brls.

Hull

(October 16 to 22).

Acetic acid (Holl.), 26 brls.; aniline dyes, (Holl.) 13 cks., (Belg.) 364 pkgs.; barytes (Germ.), 66 cks.; copal (Antw.), 13 bgs.; oxalic acid (Germ.), 25 pkgs.; petroleum jelly (N.Y.), 200 cs. 100 brls.; seeds: cotton (Alex.), 2,342 tons; dill (Belg.), 105 bgs.; ground-nuts (W. Af.), 1,740 tons; lin, (R. Plate) 17,801 bgs., (E.I.) 73,592 bgs.; palm kern. (W. Af.), 65,555 bgs.; sod. nit. (Chile), 38,915 bgs.; turpentine (Swe.), 20 brls.

Manchester

(October 18 to 22).

Anthracene (Fr.), 50 bgs.; cottonseed oil (N.Y.), 1,000 brls.; formaldehyde (N.Y.), 1,000 brls.; hematine (N.Y.), 10 brls.; pot. nit. (Antw.), 100 cks.; sassafras bark (N.Y.), 11 bgs.; soda bichromate (N.Y.), 64 cks.; soda chlorate (Fr.), 100 cks.; soda nit. (Fr.), 28 cks.; tannic acid (Mon.), 34 brls.; tartar emetic (N.Y.), 20 kgs.; vaseline (N.Y.), 14 brls.; wax, paraffin (N.Y.), 260 brls.; zinc oxide (Antw.), 50 brls.

Southampton

(October 18).

Aloes (Mossel B.), 65 cs.; barytes (Holl.), 170 cks.; carnauba wax (Bahia), 252 bgs.; casein (Fr.), 263 bgs.; cocoa-butter (Rio), 35 cs.; cottonseed (Fr.), 3,165 sks.; ipecacuanha (Bahia), 7 bls.; rectified spirit (Natal), 90 drms.; sunflower seed (S. Af.), 400 bgs.

London

(October 25 to November 1).

Antimony ore (Ch.), 500 cs. Casein (Fr.), 203 bgs.

Chemical products, etc.: (Belg.) 35 pkgs., (Fr.) 200 bgs. 21 pkgs., (Germ.) 83 pkgs., (Holl.) 93 pkgs. Acetic acid, (Belg.) 265 pkgs., (Germ.) 15 drms. 18 brls., (Holl.) 86 cks. Argol, (Sic.) 200 bgs., (It.) 30 cks. Arsenic (Germ.), 10 cks. Barytes, (Germ.) 516 cks. 300 bgs., (Belg.) 350 bgs. Boric acid (N.Y.), 500 kgs. Bromide: potash (Holl.), 17 cks. Cobalt oxide (Can.), 89 kgs. Cream of tartar, (It.) 290 brls., (Sic.) 189 brls. Creosote (N.Y.), 17 cs. Glycerin (Holl.), 10 cks. Magnes. chloride (Hamb.), 26 cks. Mercury (It.), 22,500 lbs. Mirbane oil (N.Y.), 22 drms. Naphthol (N.Y.), 15 brls. Oxalic acid (Holl.), 26 cks. Potash, caustic (Hamb.), 32 drms. Potash chlorate (Hamb.), 40 brls. Potash crystals (Holl.), 50 cks. Silver nitrate (Hamb.), 13 cs. Soda (Holl.), 83 drms. Soda perchlorate (Holl.), 26 cks. Sulphur (Sic.), 400 sks. Tartar (Fr.), 787 bgs. Tartaric acid, (Fr.) 277 bgs. 215 cks., (It.) 12 brls. Thorium nitrate (N.Y.), 80 bxs.

Cocoa butter (Germ.), 21 cs. 4 bgs.

Drugs, crude, etc.: roots and herbs, (Fr.) 23 bls., (N.Y.) 191 pkgs., (Belg.) 10 bls., (Can.) 25 bgs.; leaves (It.), 18 bls.; roots (Sic.), 20 bls.; herbs (Sp.), 24 bgs. Cardamoms (Cey.), 15 chts. Chaulmoogra oil (Cal.), 24 cs. Cod-liver oil (Jp.), 10 brls. Croton seed (Cey.), 636 bgs. Elm bark (N.Y.), 10 bls. Galls (Ch.), 135 cs. Henbane (P. Said), 26 bls. Henna (P. Said), 12 bgs. Juniper berries (Germ.), 71 bgs. Laurel leaves (Fr.), 141 bls. Liquorice juice, (It.) 282 cs., (Sic.) 3 cs. Liquorice root (Sp.), 13 bls. Nux vomica (Cey.), 38 bgs. Senega (Mont.), 69 bls. Turmeric (Cal.), 200 bgs.

Drugs, medicines, etc.: (N.Y.), 21 pkgs.; antiphlogistine (N.Y.), 370 cs.; glyco-heroin (N.Y.), 360 cs.

Dyes, dyeing and tanning materials, etc.: aniline dyes (Belg.), 109 pkgs. 24 cs.; cochineal (Fr.), 20 bls.; dyewood ext. (N.Y.), 90 bxs.; myrabolans (E.I.), 2,412 pockets

The Cultivation of Buchu.

The cultivation of buchu in South Africa is dealt with in the "Imperial Institute Bulletin" (vol. xvii., No. 4), in the course of which the measures taken to prevent the wholesale destruction of the plants is indicated, similar information having been given in this journal from time to time. Although these measures will doubtless help to preserve the wild plants from extermination, there is no question that the best way to obtain a continuous and regular supply of the leaves is by cultivating the plants. A further advantage of cultivation is that it would ensure the leaves being marketed in a pure state. At present the three standard forms of buchu are sometimes found to be adulterated with leaves of other species of *Barosma*, while those of *Empleurum serrulatum* are occasionally present in considerable quantities in parcels of long buchu (*B. serratifolia*). Cultivation experiments with buchu have been made from time to time by private persons (see, for example, "Agric. Journ. Union of S. Africa," 1913, 6, 80), and more recently experiments with *B. betulina* have been conducted at the National Botanic Gardens, Kirstenbosch, particulars of which are given in the "South African Journal of Industries" (1919, 2, 748). From this account it appears that seed was sown in 1914 in four plots situated in different positions on the slopes of Wynberg Hill. At the base of the slope, where the soil consisted mainly of a black, sandy alluvium, which was occasionally flooded during the winter, only a few seeds germinated at the driest end, and these did not survive the first winter. The best results were obtained on a plot in an open, sunny position well up the slope of the hill. Here the soil was a red, gritty loam, rich in iron and deficient in lime, the subsoil being dry and consisting of clay containing a large quantity of quartz grit, with here and there a seam of ironstone gravel. In June 1916 a further sowing was made at this spot in rows four feet apart, the land being trenched and no manures added. About 80 per cent. of the seed germinated in this case, which was much higher than in any previous sowings. The germination, however, was slow. Seed was also sown in tins in a nursery, to supply plants for filling gaps in the plantation, but not more than 20 per cent. germinated. The seed sown *in situ* was not watered, and rain fell on only two days in the first fortnight, whereas the surface soil in the nursery was kept moist by watering. It appears, therefore, that the seed dislikes much moisture during germination. When twelve months old the seedlings were thinned out, and some were transplanted, but not more than 10 per cent. succeeded. When two years old the plants sown in 1916 were from twelve to eighteen inches high, very bushy, and some of them flowered and seeded. It is suggested that the best method of harvesting is to cut the whole plant back to near the crown when eighteen months old, and thereafter annually, cutting each season a little above the previous year's cut. By this method a harvest is obtained every year, and the yield should gradually increase. It would be necessary, however, to allow a number of plants to grow on and flower, in order to obtain seed for the renewal of extension of the plantation. The yield of dry leaves from a row of eighty yards long, cut in May 1918—that is, when the plants were about two years old—was 8½ lb. With rows four feet apart this is equivalent to a yield of about 400 lb. per acre. It is stated that the growth of the plants subsequent to being cut back was entirely satisfactory, and none of them died. The results obtained in the experiments at Kirstenbosch indicate that under suitable conditions the commercial cultivation of buchu should prove a success. *B. betulina*, the most valuable kind, alone should be grown. The plant is particularly adapted to dry conditions, and may be cultivated on sunny hillsides, where other crops will not succeed.

Belgian soap shows a tendency to replace all imported descriptions. The present output is at the rate of 4,000,000 lb. a year, compared with a pre-war output of 2,700,000 lb.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Roger Bacon and Gunpowder.

Sir,—The claim that Roger Bacon first invented gunpowder has lately been made more manifest by the researches of Colonel Hime, R.A. He says: "The method of refining saltpetre, devised about 1248 by a persecuted monk, falls little short of the modern method pursued in Waltham Abbey, though founded on the experience of centuries and supported by all the help a Government could give." Bacon says a small quantity of a certain material will give, on ignition, a thundering noise and a vivid flash. This "modica materia adaptata," he tells us—elsewhere—is saltpetre ("salis petræ") and sulphur and something else. In another place ("De Secretis") he tells us the "something else" is light charcoal from the willow or hazelwood ("novellæ coruli"). The recipe sounds very much like a modern prescription, and is to be made "si scias artificium"—if you know the proper technique—and it reads thus: "Sed tamen salis petræ recipe vii. partes, novellæ coruli (charcoal) v., et sulphuris v." This, properly mixed, explodes with a great noise ("sonum facit horribilem") and gives a bright flame ("et coruscationem ostendit vehementem"). But the Friar tells us it would be madness to give this secret in such a way that the vulgar multitude might easily learn it ("insanus est qui aliquod secretum scribit nisi ut a vulgo celetur"). Just as only a skilled pharmacist can interpret a physician's prescription—so he has written the recipe so that the cleverest and wisest can scarcely make it out ("ut vix a studiosissimis et sapientibus possit intelligi").

Yours truly,
J. C. McWalter, M.R.I.A.

One Man—Six Voices.

Sir,—We all agree that "unity is the first consideration in any settlement that results," but there may be a deadly unity which will destroy all initiative among those who have not the official outlook. Here is a list of the bodies in England in control of pharmacy and the drug-trade: (1) The Society's Council; (2) Local Associations Executive; (3) the Pricing Bureau; (4) the Proprietary Articles Trade Association; (5) the Chemists' Defence Association; and (6) the Drug and Fine Chemicals Association—six voices, but the voice is that of one man. Why create anything else if it is to be the same thing under another name? The trade was told once that there could not be two kings in Brentford; but if that is to be our unity in pharmacy, well, I for one shall prefer to remain outside, since I don't intend continuing to support a one-man show.

A Mere Londoner. (8/11.)

Rates of Profit.

Sir,—Your notice of the "Glaxo Service Bulletin" (*C. & D.*, November 6, p. 65) drew my attention to the article on the competition of grocers in the sale of foods, and I see that Mr. Nathan thinks that chemists are too greedy of profits to do much business. If the Proprietary Articles Trade Association is such a mistake, why is Glaxo one of its supporters? Why not be independent and let anyone cut the price as much as he likes? In the natural course of cutting competition the 7*s.* 6*d.* tin would soon get down to 6*s.* The public would benefit to that extent, and the retailer, whether grocer or chemist, would take care neither to show it nor sell it if he could help it. But the grocers have always been with us, the welfare centres only recently. When I introduce a food to a person and spend some minutes trying to effect a sale, and the next customer waiting turns round and advises the prospective buyer not to pay that exorbitant price, but to get it from the welfare

centre, as he does, that is not only a sale, but a customer, lost, and this is affecting us much more than grocers or any other trader ever will. Like the retailer, the manufacturer cannot eat his cake and have it too, and every tin or packet of food served up at a cut rate at a centre is one less distributed through retail dealers. What the proportion of profit is to the manufacturer in the respective cases, of course I do not know; but it is no use castigating the chemists for their decreasing sales when these have been diverted to other channels which they cannot compete with. Yours truly,

GLAXIE. (9/11.)

The Venereal Problem.

SIR,—Your correspondent "Common Sense" (*C. & D.*, October 30, p. 94), in his letter discussing the report of the Committee inquiring into the working of the Venereal Disease Act, points out that the Committee laid stress on the fact that a pharmacist was prevented from prescribing for venereal disease, but not for any other complaint. Nor is he at present; but if the medical profession continues to secure legislation at the present rate he soon will be. The Venereal Disease Act was passed in a moment of panic, owing to the outcry raised during the war about these complaints, and the people who nurse the doctors' interests were quick to use the thin end of the wedge, and inserted it very successfully. The rest will follow in due course; in fact, the present Proprietary Medicines Bill is a good attempt at preventing the sale of any medicine at all except on prescription, and if the chemists' rights are eventually secured in this case we may be sure the matter will not remain there, but some further opening sought for.

Yours faithfully,

DISINFECT. (2/11.)

Proprietary Medicines Bill.

SIR,—The letter of "Australian Chemist" (*C. & D.*, November 6, p. 94) is interesting in view of the present position with regard to proprietary medicines in this country. He says that the statement is occasionally made there that proprietary articles send patients to the doctor, but in this country it is rather the other way round. It is the experience of most chemists that the purchaser of an advertised remedy will give a history of visits to doctors till he is tired, and then, having tried orthodox means without satisfaction, he takes to trying patents in the hope of finding one to suit him. It is, of course, recognised by the most vigorous opponents of the Bill that some remedies claim absurd powers, and a measure that would follow the lines of the Anti-Quackery Bill in New Zealand would meet the case very well, and at the same time safeguard the rights of pharmacists and the proprietors of genuine medicines. Yours, etc.,

ANTI-BILL. (19/9.)

Wages in Pharmacy.

SIR,—In the discussion on the wages question, although the various points have been raised regarding the employers' ability to pay, increase of profits, higher cost of living, etc., no one has touched on the question of payment for education and responsibility. When we compare the pharmaceutical profession with other callings or trades, the payment of the skilled man is ridiculously inadequate looked at from this point of view. A glance at the *C. & D. Supplement* shows that the qualified pharmacist's wage is now down to 4*l.*; if he gave up the business and went as a labourer he would get 2*s.* an hour, so that working five days of eight hours each he would earn exactly the same remuneration for a job in which he would have no responsibility, no training, no black-coated status to keep up, as he does now for a berth which entails long hours, subjection to all the inspectors under the various Acts, and the extremely responsible handling of dangerous drugs. "Scar Gill" (*C. & D.*, November 6, p. 94) talks about pre-war and post-war profits, but he does not say whether he means amount of profit or rate of profit. As a matter of fact, the rate of profit is lower, as is witnessed by the income-tax authorities' estimate for men in business, but the amount of profit is a figure which is naturally known only to the individual; if, therefore, the rate is less and the amount is more, it follows that it is due to increased turnover, and what we want to get at is how the extra output is achieved without either extra staff or extra pay. It is interesting to note in this connection that in asking for advanced fees for Insurance dispensing, the only argument which the Ministry is likely to accept is the increased cost of wages, which is just the one item that has not risen appreciably. It is, therefore, up to proprietors to increase their profits suitably, though whether any of the increase would voluntarily filter through to the assistant is doubtful, human nature not having progressed with the times; but at any rate it would be a beginning and would give us something to work on. Yours faithfully,

RATIO. (6/11.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

The Manufacture of Agar-agar.

Mr. T. W. Hazelby, Ringwood, calls attention to an illustrated article in "World's Work" on the manufacture of agar-agar from seaweed, on the Pacific coast of the United States. This is a new industry for America.

Small Profits on Proprietaries.

Mr. Evan Griffiths, Pontardawe, writes in regard to the small rate of profit which is afforded to chemists by the manufacturers of Urodonal, Dr. Hair's Asthma Cure, Liquafruta, and Cicfa. Mr. Griffiths is bringing the matter forward at the next meeting of the Swansea and West Glamorgan Association, and he hopes that other local Associations will consider also the question.

Lighting Order.

Strachan & Co., chemists, 149 High Street, Aston Manor, referring to the proceedings against them under the Lighting Order (*C. & D.*, November 6, p. 69), write: "Your report of our case conveys the idea that we were open after hours. We do not keep open after orthodox closing-time. The police called at 6.30 P.M., and ordered us to shut off lights. We refused the order as being unreasonable. The time had nothing to do with the case."

Legal Queries.

Beta (1/11).—Samples of proprietary medicines that are given away need not be stamped, but there must be no charge made for postage, as the Board of Customs and Excise hold that this is a payment.

W. B., Ltd. (9/11).—Dandruff has been held not to be an ailment within the meaning of the Medicine Stamp Act, 1812, but the labels and circulars referring to the preparation should avoid the use of the word "cure," or liability may be incurred.

Pharmacist (2/11).—The amended regulation for the sale of agricultural and horticultural poisons (*C. & D.*, October 23, p. 45) applies only to persons licensed under the provisions of Section 2 of the Poisons and Pharmacy Act, 1908. See *C. & D. Diary* 1920, p. 294.

F. S. (218/32).—You will require to register the names of the persons to whom the business belongs, if the true Christian names and surnames are not contained in the name under which the business is conducted. A form of registration can be obtained from the Business Names Registrar, 39 Russell Square, London, W.C. 1.

S. C. W. S. (4/11).—Household remedies such as syrup of squills and syrup of senna may not be sold unstamped if recommended for the prevention, relief or cure of ailments, by persons who are not exempted by the Medicine Stamp Act, 1812—that is, who are qualified chemists or who have served a regular apprenticeship to a chemist.

Apprentice (30/10).—Apprenticeship.—The following are the replies to your inquiries: (1) It is not necessary to produce indentures before registration as a student; only a signed declaration by the employer is required of having been engaged for three years in the translating and dispensing of prescriptions. (2) There is no reason why you should be at a disadvantage through not having formal indentures. It is, however, more satisfactory to be able to produce indentures to prove apprenticeship, should this be needed.

W. O. W. (31/10).—Examination Syllabus.—You will be examined on what you call the old syllabus—that is, the present one, which has been given another year of life. The new syllabus will not come into operation until after October 1922. As you state that you registered as a student early this year, you should be quite sure that you come within the exemption from the 4,000 hours in an open shop. You should get this settled by writing to the secretary of the Pharmaceutical Society. As an ex-soldier you will be granted exemption.

E. C. (5/11).—An unqualified person cannot legally carry on a chemist's business by employing a qualified chemist. A business can, however, be carried on by a limited company provided that (1) if the company uses the title chemist it has a qualified chemist as a director, and (2) that the business is *bona fide* managed by a qualified chemist as the superintendent, and whose certificate of qualification is exhibited in the shop. The business need not be carried on in the name of the qualified chemist.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

S. T. (4/10).—Capsicin Equivalent.—You can use from 100 to 110 grains of capsicin as the equivalent of pulv. capsici ʒj., ordered in the formula for electric liniment given in the *C. & D.*, September 18, p. 76. An explanation of the method of arriving at this is given in the *C. & D.*, I., 1913, p. 56.

Lobelia (23/10).—Books on Biochemistry.—Schryver's "Biological Chemistry" (Jack, Ltd.); Plimmer's "Practical Organic and Biochemistry" (Longmans, Green & Co.); "Practical Plant Biochemistry" (Cambridge Press).

J. E. W. (223/33).—Inf. Lini, B.P. 1885.—The formula is as follows:

Linseed	150 gr.
Dried liquorice root in No. 20 powder	50 gr.
Boiling distilled water ...	10 oz.

Infuse in a covered vessel for two hours and strain.

A. M. (6/11).—Lin. Atropinæ et Chloroformi (St. Thomas's Hospital).—This is a mixture of atropine liniment 5 parts, chloroform 1 part. The *atropine liniment* is prepared by dissolving atropine sulphate 38½ grains in compound tincture of lavender 100 minims and alcohol (90 per cent.) to 20 oz.

A. G. (2/11).—Printers' Ink is only partially removed from paper by means of solvents such as benzine and turpentine, because the carbon of the ink becomes fixed into the fibres of the paper.

E. F. B. (5/11).—"Pharmaceutical Formulas" (15*s.*, *C. & D.* Office) contains a chapter on the manufacture of skin creams.

E. E. H. (1/11).—The odorous and lachrymatory principle present in onions is allyl propyl disulphide.

W. H. R. (6/11).—We are unable to supply any information regarding "box powder," about which we inquired in the *C. & D.*, September 25, p. 95.

F. W. F. (8/11).—Books on Chemical Calculations.—Dobbin's "Arithmetical Exercises in Chemistry" (2*s.*, Thin, Edinburgh); Whiteley's "Chemical Calculations" (2*s.*, Longmans).

B. & H. (5/11).—Seed-dressing.—The method of dressing seed before sowing, to which you refer, is as follows: One pint of formalin to 36 gals. of water is used for immersing seed oats to prevent smut, and seed wheat to prevent bunt. The seed is placed in a bag and dipped in the solution for ten minutes, then spread out to dry. For steeping barley to prevent attacks of "blindness" and "stripe" 1 pint of formalin to 20 gals. of water is recommended. The grain is immersed for five minutes, or the solution is mixed with a heap of grain.

P. F. (4/11).—The Prescriptions Priced according to the London Simplified System are as follows:

I.	Mist. pepsin. co. (Hewlett) ... ʒxij.	22.0*d.*
	Bismuth. subnit. ... ... ʒiij.	11.0
	Mag. sulph. ... ... ʒvj.	1.0
	Mucilag. ... ... ʒj.	3.0
	Aq. menth. pip. ad ... ... ʒvj.	3.5
	Container ...	3.5
	Dispensing-fee	9.0
		53.0*d.*
		=4*s.* 5*d.*
II.	Resorcin ... ... ʒv.	32.0*d.*
	Ol. ricini ... ... ʒj.	0.5
	Ol. ros. geran. ... ... ɱx.	3.5
	Ess. moschi ... ... ɱx.	2.5
	Spt. rosmar. ... ... ʒiij.	86.0
	Tr. canthar. ... ... ʒiv.	43.0
	Tr. cocci ... ... ɱxx.	0.5
	Spt. vini rect. ad ... ... ʒviij.	23.0
	Container ...	4.0
	Dispensing-fee	9.0
		204.0*d.*
		=17*s.*

The spt. rosmarini et spt. vini rect. are not in this case subject to rebate.

A. T. (6/11).—Concentrated Infusions preserved with chloroform avoid the use of spirit by dissolving in the final product sufficient chloroform to saturate the liquid. The difference in taste is scarcely noticeable when the infusion is diluted.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Nov. 15, 1870.

The New Lord Mayor.

Mr. Alderman Dakin, the new Lord Mayor of London, is a man of large and varied experience, and, from his antecedents, may fairly be expected to manifest an active and intelligent influence in the different movements which may mark his term of office, especially that of technical education. A member of a Derbyshire family, he received his education at Knutsford Grammar School, where his studies were pursued with a degree of earnestness which has stood him in good stead in after life; he afterwards continued his studies at the then newly-opened London University. When the time came for him to enter business, he resolved to seek his fortune in London, and accordingly joined the house of Messrs. Bryden & Co., export druggists, Abchurch Lane, and, stage by stage, worked his way up until he had the satisfaction, in due course, of finding the name of the firm replaced by that of Dakin Brothers, himself being at the head. Though labouring with zeal and untiring assiduity at the office, business was by no means suffered to engross the whole of his attention, for we find that while still a young man he displayed considerable interest in mechanics' institutions, which were just then coming into favour, and in conjunction with Dr. Birkbeck and others, he did much to promote this good work. When the London Mechanics' Institution, in Chancery Lane, was projected, Mr. Dakin rendered valuable help in carrying out the plan, and he subsequently took an active part in the conduct of the various organisations connected with it.

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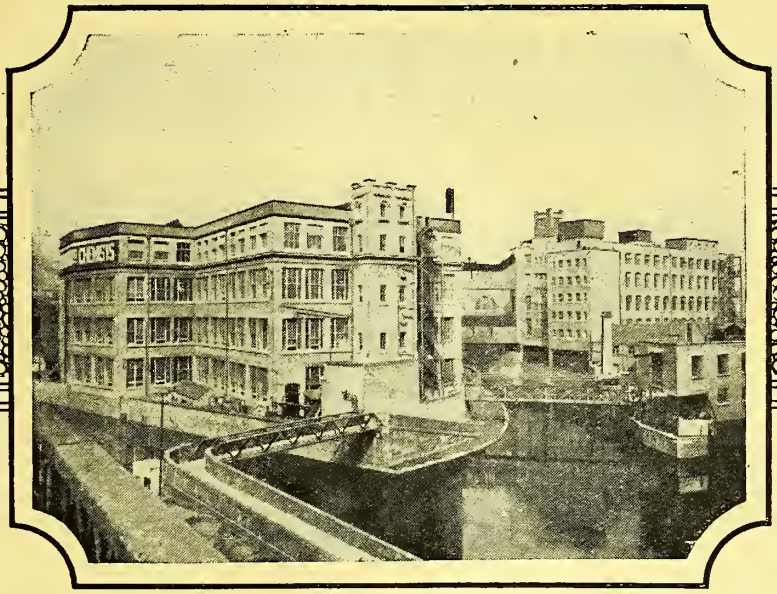
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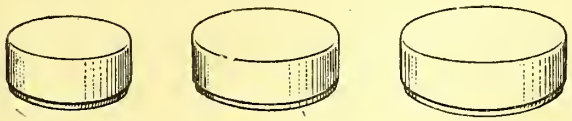
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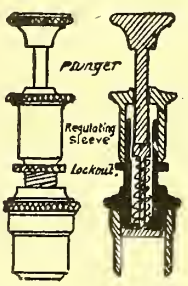
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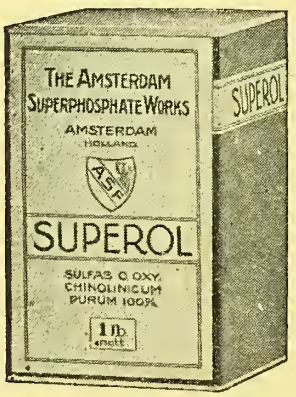
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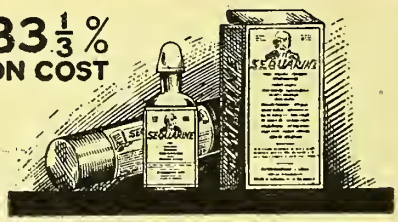
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November 13, 1920.

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Advertised Price.		Minimum Retail Price.	Minimum Wholesale Price.
14/–	Erasmic Perfume (No. 100/4)	14/–	112/– doz.
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1/6	,, Shaving Stick (Nickel case)	1/6	150/– grs.
1/3	,, Shaving Stick (Blue tins) Less 5 % discount.	1/3	114/– ,,
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2/3	,, ,, (8-oz. ,,)	2/3	17/– ,,
3/6	,, ,, (16-oz. ,,)	3/6	27/– ,,
5/9	,, ,, (32-oz. ,,)	5/9	45/6 ,,
8/3	,, ,, (½-gal. tins)	8/3	6/3 each
14/–	,, ,, (1-gal. ,,)	14/–	11/– ,,
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3/-	4/6	40/6
5/-	7/6	67/6
12/-	18/-	162/-

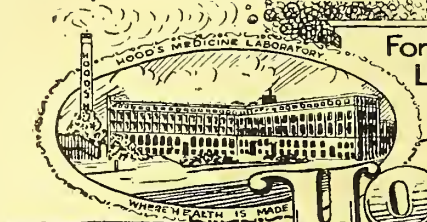
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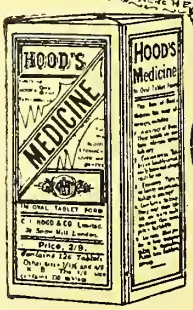
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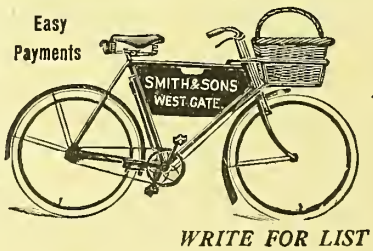
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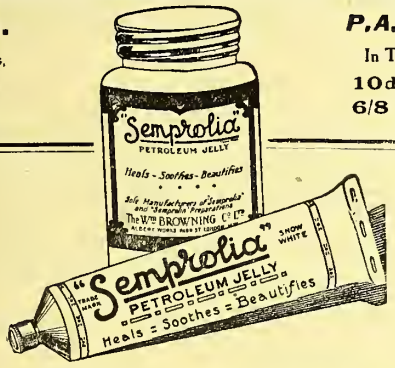
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The Wm. BROWNING Co., Ltd., Albert Works, N.W. 1

Liquid Paraffin
B.P. 1914

"STERNS" B.P. Grade is guaranteed to be the finest quality of Liquid Paraffin produced. It has the patronage of the largest wholesalers, the recommendation of the Medical profession, and is used in the principal Hospitals in preference to all other kinds.

STERNS LTD.

AD. 80, ROYAL LONDON HOUSE, FINSBURY SQUARE, E.C. 2.

PREMIER CASTOR OIL

IN BARRELS
IN TINS & CASES
IN DRUMS

PREMIER OIL EXTRACTING MILLS Ltd.
STONEFERRY,
HULL.

Also Manufacturers of
OILS
RAPE
SOYA
GROUNDNUT
MEALS



Have you thought of the Special Christmas Trade for MOVOL?

Children will be home on holiday, and ink stains and table mishaps will occur very frequently.

Make a good show of

TRADE MARK
MOVOL
Regd

STAIN REMOVER

Removes Ironmould, Rust, Fruit and Ink Stains from White Linen, Clothing, Marble, etc.

Movol is now well-known. You can profit from this, and profitably increase its popularity by display.

Full particulars, Trade terms and Showcards will be sent on application to Sole Makers: **WM. EDGE & SONS, Ltd., BOLTON.** *The Drummer Dye People.* T12

ADEPS LANÆ

B.P.

"ULTRAVI" Brand.

The Latest & Best.

— Inquiries Invited. —

THE

C.V.O. Chemical Works,

LIMITED,

Petersham Road,

RICHMOND (SURREY).

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K. MALMBERG,

110 Cannon Street,

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THE FINEST BRITISH LANOLINE PRODUCED

IS MANUFACTURED BY

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Carnwath Road, Fulham, London, S.W.

WHO INVITE INQUIRIES.

METHYLATED SPIRIT

OILS AND CHEMICALS

Buy from one of the oldest houses in the trade.
Write for Prices. *Established 1794.*

SAMUEL THORNLEY, Ltd., Birmingham.

EUCALYPTUS OIL

B.P. 70/80 %

OLIVE OILS

All Descriptions.

LIQUORICE

Block and Sticks.

CASTILE SOAP

White and Mottled.

COD LIVER OIL

Medicinal and Cattle.

WE ARE NOW MAKING SPECIAL OFFERS OF ABOVE.
: : WRITE TO US FOR SAMPLES AND PRICES : :

STRICTLY WHOLESALE.

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"PALUSTRIS, LED, LONDON."

AND AT
LIVERPOOL, GLASGOW, BRISTOL, ETC.



THE Maltine Company's specialities have been before the British Public for over FORTY YEARS, and are regularly advertised, and recommended by the Medical Profession

"Maltine" plain
" with Cod Liver Oil 30%
" Cascara Sagrada
" Creosote
"Maltine" with Iron
" Hypophosphites
" Pepsin & Pancreatin
" Iron, Quinine & Strych.
Malto-Yerbine.

TWO SIZES—P.A.T.A. PRICES—25% DISCOUNT.

THE MALTINE MANUFACTURING CO. LTD. 183 Acton Vale LONDON, W.

Chemists' own Name and Address printed on label on orders of 6 dozen upwards.

Season Contracts are NOW being booked.

MALT EXTRACT & COD LIVER OIL

¶ The high Diastatic Power and Cod Liver Oil content (15% by vol.) in strict accordance with B.P.C. and N.H.I. requirements, and the finest **Norwegian** Cod Liver Oil only is used. H. A. & D. Taylor's Malt Extract has a fine rich flavour, and is prepared from the finest selected malted barley.

Supplied in SCREW-CAPPED, AIR-TIGHT Round AMBER JARS.

Specimen Labels on application. ***Terms: Net Cash, Monthly a/c, Carriage Paid.***

H. A. & D. TAYLOR, Ltd. *MALT EXTRACT MANUFACTURERS.*

Head Office: SAWBRIDGEWORTH, HERTS.

Maltings at Sawbridgeworth, Bishops Stortford, Bury St. Edmunds, Newmarket, and Newark-on-Trent.

Northern Agency: J. B. CROSSLEY, Arcade Buildings, 85 Lord Street, Liverpool.

JOB BROTHERS

GUARANTEED PURE GENUINE NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

IS THE FINEST OIL PRODUCED

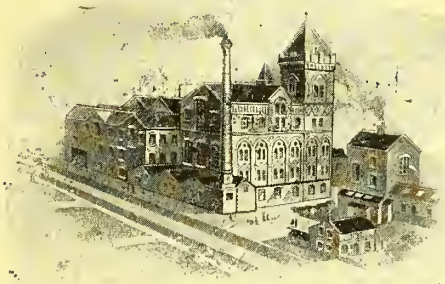
It is perfection in colour, smell, taste and absolute purity.
Manufactured from the finest fresh Cod Livers on same day as fish caught.

WHOLESALE ONLY

JOB BROS., Manufacturers, Tower Building, LIVERPOOL

Telegraphic Address: "JOB LIVERPOOL" Tel.: 1039 CENTRAL
And of ST. JOHN'S, N.F. Established 1780.

"John Bull" (REGD.)



MALT EXTRACT

and

COD LIVER OIL

Does not separate.

Supplied in Bulk; Jars, Cardboard Containers, &c., for Wholesale and Export only.

MALT EXTRACT POWDER. MALT FLOUR for INFANTS' and INVALIDS' FOODS.

PAINE & CO., LTD., ST. NEOTS, HUNTS.



MALT & COD LIVER OIL

Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lb. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 Gross and upwards.

Telephones: Nitshill—Pollokshaws 14 London—Avenue 5661 (3 lines).

PERRY & HOPE, Ltd.

Telegrams: "Perryope, Nitshill." "Perryope, Led, London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.

CARVER'S TONIC SALTS

A COMBINED NERVE TONIC AND BLOOD PURIFIER.

Invigorates and Purifies the Whole System.

Attractively packed.

Shows 50% Profit to you.

Price in gross lots, per **100/-** gross.
Carriage Paid.
Less Special Stocking Bonus of 5%



4 oz. Size Retailed at 1/-

A scientifically prepared Effervescing Saline, possessing medicinal properties superior to the ordinary Health Salts

A FREE TIN

will be sent for your personal trial on receipt of application on letter heading.

Sole Proprietors—

JOHN CRAMPTON & CO. LTD. DEANSGATE, MANCHESTER.

The Nutrient Laxative

Obstacles to Nutrition

MANY foods contain a large quantity of flesh-forming and energy-promoting substances, but where the organs of digestion and excretion are unable to work to their full capacity little benefit is derived from the food. Indeed in many cases, as the Physician will recognise, bulky foods aggravate the condition:

(1) By forming further accumulations in the bowels.
(2) By overweighting the intestine and dragging it out of place.
(3) By the production of poisons from excessive bacterial activity.

Overcome by Virolax

These difficulties are met by Virolax, which combines the nutritive properties of Virol (egg, bone marrow and malt extract) with the laxative properties of liquid paraffin.

An important feature of Virolax is that in combining these two components the paraffin becomes so finely emulsified that the uncertain action of paraffin in its ordinary state is entirely avoided.

Virolax feeds while it relieves and is therefore in a category apart and so pleasant in flavour that it may be taken with the greatest benefit by children or adults as a laxative nutrient in all cases of irregularity so apt to tend to bacterial poisoning.

Virolax is packed in 4 oz. and 16 oz. tins at 1/- and 2/8, and is supplied to the Trade in one dozen boxes at 10/- and 27/- per dozen. Terms: £3 orders carriage paid, less 5%. On orders over £5 an extra discount of 5% is allowed on condition that window display is made. These terms will also apply to combined orders for Virol and Virolax to the value of £3 and £5.

Virolax

(Registered Trade Mark).

Show cards and advertising material on application.

VIROL, Ltd., 148-166, Old Street, London, E.C.1.

A Seasonable Question

Below are recapitulated the arguments in favour of pushing and selling 33 % Cod Liver Oil Emulsion, P., D. & Co., in preference to making an emulsion in the pharmacy or buying a so-called "own name" brand ready packed.

When the pharmacist makes and packs his own emulsion

he has to assume all risk of deterioration or failure to sell. He has to invest his capital in considerable stocks of the various ingredients, containers, labels etc. etc. He has to create the demand for every bottle that he sells and the cost of any sampling or advertising comes out of his profits.

When he buys an emulsion ready packed with his own name

he avoids some of the worry and trouble, but still has to sell all of it entirely "off his own bat," and still has to provide his own showcards, samples and advertising.

When he buys 33 % Cod Liver Oil Emulsion, P., D. & Co.

his investment is limited to finished stock which is in constant demand—he has only to display the product on his counter and in his window, and to maintain a reasonable reserve. Certain selling aids are provided for him. Further, much is done in various directions to stimulate demand.

33 % Cod Liver Oil Emulsion with Hypophosphites, P., D. & Co.

is prepared with the finest non-freezing cod liver oil, *rich in vitamine (fat-soluble A)*, with hypophosphites of calcium and sodium; it is manufactured and finished by special processes which ensure its stability. The profit it yields is exceptionally good, particularly when purchased on special terms. There is no risk whatever; it is prescribed by physicians throughout the country, and the laity accept it as the standard emulsion.

A sample, with details of selling plan, will be gladly sent to any pharmacist upon request. Send a post card now to

Telephone—Regent 3260 (6 lines).

Telegrams—"Cascara London."

PARKE, DAVIS & CO., LONDON, W. 1.

T.J. 83.

GOLD MEDAL AT INTERNATIONAL MEDICAL CONGRESS, LONDON.

Sanagen

NERVE FOOD. Trade Mark Regd.



Sells Again and Again at 50% Profit to Chemists

ANOTHER GOLD MEDAL

was awarded to Sanagen at the recent Food and Cookery Exhibition, London.

CHEMISTS everywhere are finding that it pays them in money and goodwill to introduce SANAGEN to their customers. For SANAGEN sells itself again and again after the first tin, being a Nerve Food that wins the approval of the Public and the Medical Profession. Furthermore, it is PALATABLE—unlike some Nerve Foods. Try personal introductions of SANAGEN to those of your customers who tell you that they are not feeling up to the mark. Your customers will appreciate your kindly interest in their welfare.

SANAGEN—THE BRITISH AND ALWAYS BRITISH NERVE FOOD

SIZES, RETAIL AND TRADE PRICES AND PROFITS.

4 oz.	Costs 2/-	Sells 3/-	PROFIT 1/-
8 oz.	Costs 3/4	Sells 5/-	PROFIT 1/8
16 oz.	Costs 6/4	Sells 9/6	PROFIT 3/2

SANAGEN COMPANY LTD

Sheepcote Lane, Battersea - - - LONDON, S.W. 11

Sales Agents for Scotland and Northern Counties:

H. PENNEY & CO., Royal Buildings, NEWCASTLE-ON-TYNE

Telephone: Latchmere 4363. Cables and Telegrams: "Phosaglyc, Batt Square, London."

Jensen's

ICE-REFINED
PURE
NORWEGIAN

COD LIVER OIL

from the original factory at
LOFODEN, NORWAY.

In Original Tin-Lined Barrels, Gallon Tins, Winchesters and Bottles,

Samples and Prices on application to the Sole Proprietors :

HERTZ & CO.,
9 Mincing Lane, LONDON, E.C.3.
Established 1878
Warehouses, Factory & Laboratory, 20 Bevis Marks.
Telephone : 10607 Central. **Telegrams : "Freshness Fen."**

Jensen's

COD LIVER OIL EMULSION

("ICEBERG" BRAND)

MADE WITH

JENSEN'S FINEST LOFODEN
COD LIVER OIL.

25 % 33⅓ % 50 %

In Bulk or in Bottles and Cartons ; Samples and prices on application.

HERTZ & CO.,
9 Mincing Lane, LONDON, E.C.3.
Established 1878
Warehouses, Factory & Laboratory, 20 Bevis Marks.
Telephone : 10607 Central. **Telegrams : "Freshness, Fen."**



The Finest Quality Aerated Waters are made only with the Finest Quality ESSENCES

BOAKE ROBERTS'

Soluble Essences are of the finest quality and being extremely concentrated are most economical

Lemon	Ginger Ale
Orange	Stone Ginger (Cloudy)
Ginger	Clear Ginger Beer
Raspberry	Kola Champagne
Strawberry	Lime Juice and Soda
Pineapple	Lemon Squash. Vanilla

A. Boake, Roberts & Co. Ltd.
Stratford London E15.

We Create the demand



By extensive publicity in the press, and the distribution of thousands of free samples, we are constantly introducing Kutnow's Powder to a totally new section of the public.

Many of your customers may by this means have discovered the health-value of this efficacious corrective, and will, if you neglect to cater for their needs, go elsewhere for their supply. The effects of our campaign have in all probability already made themselves felt in your immediate neighbourhood.

STOCK KUTNOW'S TO-DAY.

Kutnow's Powder

Ask your Wholesale Dealer to give you full particulars. Kutnow's is entirely British made and British owned.

Manufactured only by

S. KUTNOW & CO. Ltd. 41 Farringdon Rd., London, E.C. 1.

MASON'S EXTRACT OF HERBS

can be made up successfully with Treacle.

Please apply for supply of descriptive bills for distribution or counter use, to

Newball & Mason

NOTTINGHAM.

ENERGEN

DIABETIC FOODS.

The ENERGEN FOODS are now being recommended by the medical profession as they are the only ones that fulfil their requirements. They are the most palatable and nutritious Gluten Foods on the market.

Packed in sealed boxes specially for Chemists' Trade.

The Energen Foods, unlike other Gluten Foods, keep perfectly.

The ENERGEN FOODS yield a good profit to the chemist.

Enquiries invited.

THERAPEUTIC FOODS CO., 19c Roundwood Rd., Willesden, N.W.10.

[3]

VITMAR

The Medical Profession are recommending VITMAR for delicate Children and Invalids.

If you do not yet stock it your wholesaler will supply you.

Manufacturers—

CALLARD & CO., Food Specialists,

74 Regent Street, LONDON, W.1.

Have you a WINE LICENCE?

If not, you should take steps to procure one, and we will pay the cost.

If you already have a licence we undertake to pay the annual charge.

Dr. HALE'S
VIN-SANGUIS
WINE FOR THE BLOOD

The only conditions are—

1. *That you agree to give full display to Dr. Hale's Vin-Sanguis in your premises all the year round.*
2. *That you give us an agreed initial order.*
3. *That you keep Dr. Hale's Vin-Sanguis always in stock.*

Advertising Matter and Doctors' Samples free.

Trans-Continental Agencies, Limited

Proprietors of Dr. Hale's Vin-Sanguis.

14 *Southampton Street, Strand, London, W.C. 2.*

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co. Ld.

The Largest Makers in the United Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St, Liverpool.

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C. 3.

WINCARNIS

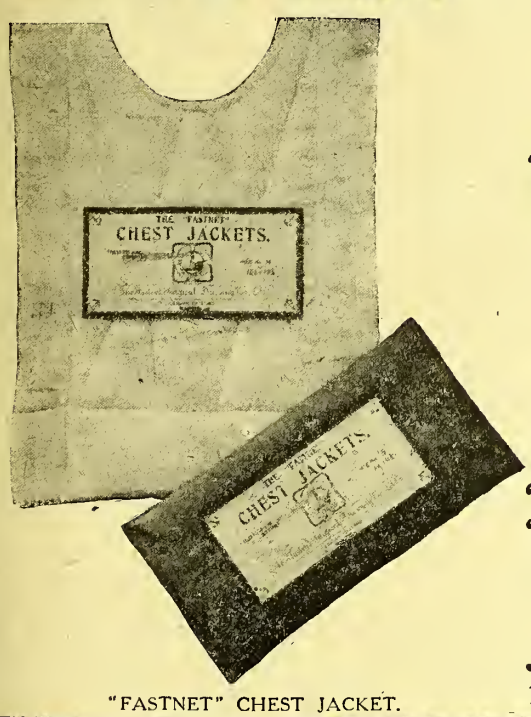
Sells readily ALL the time.

COLEMAN & CO., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without* a licence.

WINTER IS HERE



"FASTNET" CHEST JACKET.

Colds and Chills are Prevalent.

BE PREPARED!

And get a stock of

"Fastnet" Chest Jackets

Size No. 1	...	8½″	× 7″	... 22/-	dozen
,, 2	...	10″	× 8½″	... 24/-	,,
,, 3	...	12″	× 9½″	... 26/-	,,
,, 4	...	13″	× 10½″	... 28/-	,,
,, 5	...	14¾″	× 12″	... 31/-	,,
,, 6	...	16″	× 15″	... 34/-	,,
,, 7	...	18″	× 16½″	... 37/-	,,
,, 8	...	20″	× 17½″	... 40/-	,,

Similar lines: Nos.

"Fastnet" Anti-Chill Vests, Sizes 3-7

"Fastnet" Body Belts - ,, 1-4

Manufactured by the "Fastnet" Surgical Dressing Co., Ltd.

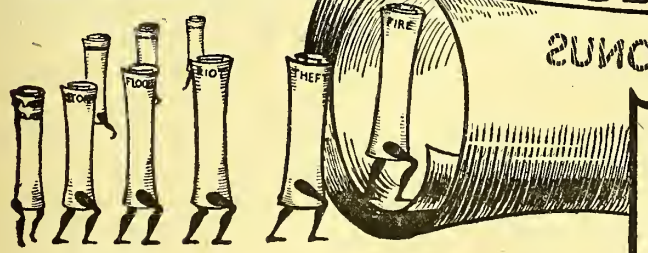
Sole Agents—

JOHN TIMPSON & CO., LTD.

104/106 Golden Lane - London, E.C.1.

Have all your Policies in **ONE**

POOL POLICY



The

POOL COMPREHENSIVE SHOPKEEPERS **POLICY**

COVERS ALL RISKS

The Licences & General Insurance Co Ltd
Victoria Embankment
Next Temple Stn W.C.2

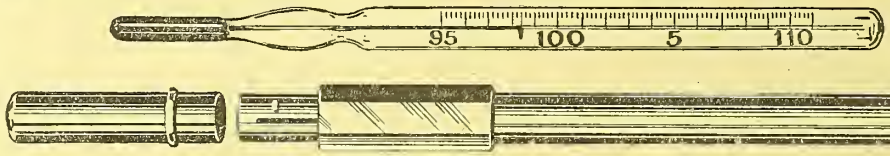
FUNDS EXCEED £500,000. FOUNDED 1890

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Fire, Burglary, Workmen's Compensation, Plate Glass, Public liability, Third Party Drivers, Loss of Profits, Loss of Rent, Riot & Civil Commotion, Bursting Waterpipes, Storm, Flood & Tempest.

ANNUAL BONUSES

CLINICAL THERMOMETERS



CLINICAL THERMOMETERS are now in greater demand than ever, and the Chemist who holds the stock is sure of quick and lucrative sales. We can supply these goods promptly in small or large quantities. Each Thermometer is verified and stamped at the National Physical Laboratory, Kew, and is thoroughly reliable. Quality for the Money—that we guarantee to give you.

PRICES:

Hospital pattern	per doz. **28/-**	60-seconds, lens front ...	per doz. **38/-**
,, ,, lens front...	,, **31/-**	30-seconds plain	,, **40/-**
60-seconds, plain	,, **34/-**	,, lens front ...	,, **44/-**

Each one in metal case.

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards Money returned if goods are not satisfactory. Write for new illustrated PRICE LIST, post free for the asking.

BURGE, WARREN & RIDGLEY, Ltd.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.

THERMAL WOOL

4/6 and 8/- dozen cartons.

ALBION ENEMAS

(Stout),

In Red, Black and Red Velvet.

36/- dozen.

W.O.W. BANDAGES (6 yds.)

1″	1½″	2″	2½″	3″	
1/9	2/7½	3/6	4/4½	5/3	doz.

N.H.I. BANDAGES (6 yds.)

1″	1½″	2″	2½″	3″	
1/2½	2/3	3/-	3/9	4/6	doz.

THOS. SWALES *(Sundryman),*

20/24 Butts Court, & 89 Albion Street, LEEDS.

Telephone: 22260.

RENÉ HEYMANS

9/10 DOMINGO STREET

Tel.: City 3765. 36 OLD ST., E.C.1

Vulcanite DOUCHE FITTINGS
,, Spare Parts
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,, Whirling Spray Canules

BONE SHIELDS
BONE MOUNTS
BONE RINGS

French Capping Skins (opaque and transparent)

TOOTH COMBS
(Best Galalit)
POCKET COMBS

Cheap lines in NAIL FILES (bone and steel) carded.
SAFETY RAZORS and spare blades.

French SHAVING BRUSHES
NAIL CLIPPERS.
TOOTH BRUSHES
at low prices.

And all kinds of Surgical and Hygienic Rubber Goods.



Ingram's LONDON

ESTABLISHED 1847.



The indications are that the coming season will see a big demand for reliable British-made India Rubber Hot Water Bottles.

Have you ordered your stock in readiness for this important Winter trade?

Three reasons why it pays to stock Ingram's "Eclipse" Hot Water Bottle—(1) You have the firm of Ingram's behind you to guarantee the manufacture; (2) the profit is good and the prices are protected by the P.A.T.A.; (3) and the most important, is in selling an "Eclipse" Hot Water Bottle you secure a satisfied customer.



MADE IN VARIOUS SIZES AND

Fitted with WASHER that cannot be lost, and made with a NECK that cannot leak.

:: PATENT Nos. 107940 & 118022 ::

OBTAINABLE FROM ALL WHOLESALE HOUSES



J. G. INGRAM & SON, Ltd.

The London India Rubber Works,
HACKNEY WICK, LONDON, E.9.

NOTICE TO THE TRADE!

Telegrams: "Kinvarage, Westcent, London."
Telephone: Museum 864.

The Directors of the

BRITISH "ANTAPSAL" Co. Ltd.



Beg to announce that during the past few weeks their Company has undergone reconstruction, and that they have taken New Premises at 38 Great Ormond Street, London, W.C. 1, to which all future orders and communications should he addressed.

The "ANTAPSAL" NASAL APPLIANCE (invisible when worn) is patented in Great Britain and abroad. It is a transparent, self-acting, continuous and curative Inhaler, which rests with feather lightness quite naturally ***inside the no strils,*** and may he worn with complete comfort and without attracting attention in the street, at work or asleep, and charges every hreath with a soothing health-restoring medicam ent. Quickly clears nose, throat and chest, relieving stuffed nostrils and hard breathing. Can he applied easily or removed in a moment, and carried in a waistcoat pocket ready for use. A simple, harmless, pleasant and effective scientific remedy; everywhere approved hy medical men, the nobility, clergy, and others who have tried it.



SPECIAL OFFER TO CHEMISTS. 13 Boxes "Antapsal" 60/- net
CASH WITH ORDER.



"It's in my nose —you can't see it—I can't feel it—only its wonderful effects."

"CATARONOL" OUTFIT

for Colds, Catarrh, Bronchitis, Stuffed Nostrils, Loss of Hearing, Hay Fever, Adenoids, Headache, Sore Throat, etc. etc.

"ASBRONATOL" OUTFIT

for Chronic Bronchitis and Asthma.

TRADE DISCOUNT **20%**

The Appliance is in use in the leading Hospitals. Numerous testimonials have been received from eminent users.

Press Advertising commences shortly, and all Chemists, Departmental Stores, etc., should obtain a stock in readiness.

Those who are willing to make a special Window Display should communicate with the company at once. Special terms allowed.

RETAIL PRICE: **6/6**

RETAIL PRICE: **6/6**

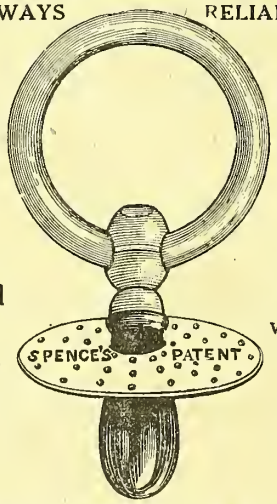
NOTICE TO OVERSEAS TRADERS.—The patent rights for the "ANTAPSAL" APPLIANCE in the following countries are for sale, and all inquiries respecting same should be addressed to The Managing Director, The British Antapsal Co., Ltd., 38 Great Ormond Street, London, W.C.1.: Australia, Austria, Belgium, Canada, Cape Colony, Denmark, France, Germany, Hungary, India, Italy, Norway, Portugal, Russia, Spain, Sweden, Switzerland and United States of America.

BRITISH ANTAPSAL Co. Ltd., 38 Great Ormond St., LONDON, W.C.1.

SPENCE'S SOOTHERS

ALWAYS RELIABLE.

This is a Speciality of ours—Best Quality Well-Fitted and Attractively Carded.



Stocked in 92 Varieties. All Good Selling Lines and well-known to the Public.

A complete set of Samples can be sent upon receipt of Postal Order value 22/- Net.
£1 orders and over, less 5% cash with order.
Carriage paid on 40/- orders and over.
Representative can call in London and Suburbs with Samples upon receipt of Post Card.

H. B. SPENCE, 44 THORNE ROAD, SOUTH LAMBETH, S.W. 8
Telephone: Brixton 1772.

Real Good Lines

Pumisope "The Hand Cleaner."

Dry Cloth-cleaning Balls
(All Colours)

Precipitated Chalk
(Powder)

Prepared Chalk
(Powder and Cones)

Fancy Boot-top Cleaning Balls
(All Colours)

Magnesia, Rouge,
&c.

H. H. HANCOCK Regd. No. 266037 LONDON

HANCOCK'S, LTD.

"The Factory," OLD BATTERSEA, S.W.11.
WHOLESALE: Write for QUOTATIONS.

A SATISFIED CUSTOMER IS THE CHEMIST'S BEST ADVERTISEMENT

The Marvel Whirling Spray Syringe



Gold Medal Awarded, Paris, 1902, by the Société d'Hygiene of France

as the latest and best improvement in Vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

Fully Protected by Patents.





You can safely recommend it.

Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

Trade price, 125/- per doz.

Retail price, 15/- each.

FASSETT & JOHNSON, Ltd.

86 Clerkenwell Rd., London, E.C. 1.

Best British Make.

The

Kenley Seamless Rubber Works

Teats, Soothers, Finger-Cots, and every description of Surgical Rubber Goods.

Inquiries invited. Samples submitted.

Wholesale and Export.

W. G. WOOLACOTT, 76 Lower Road,

KENLEY : Surrey.

THE

HOGARTH RUBBER CO.

SURGICAL RUBBER GOODS

OF EVERY DESCRIPTION.

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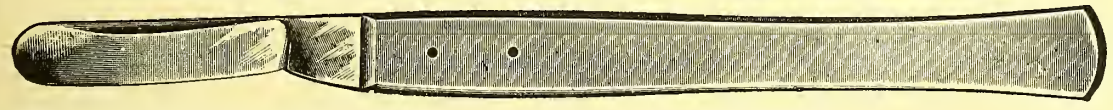
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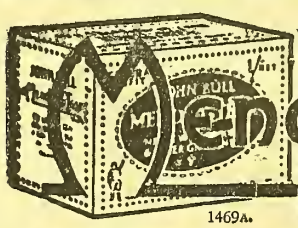
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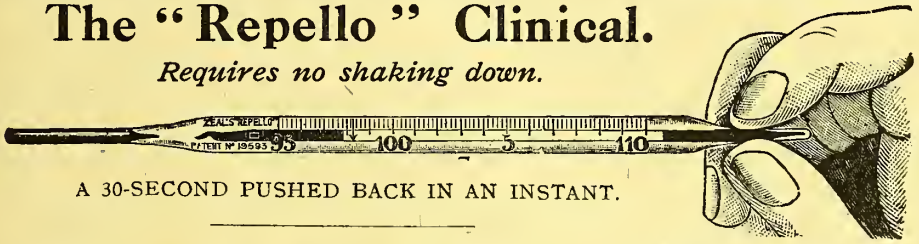
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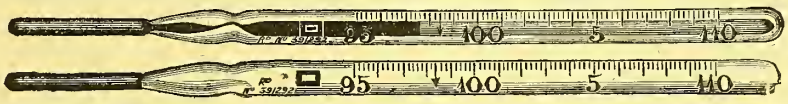
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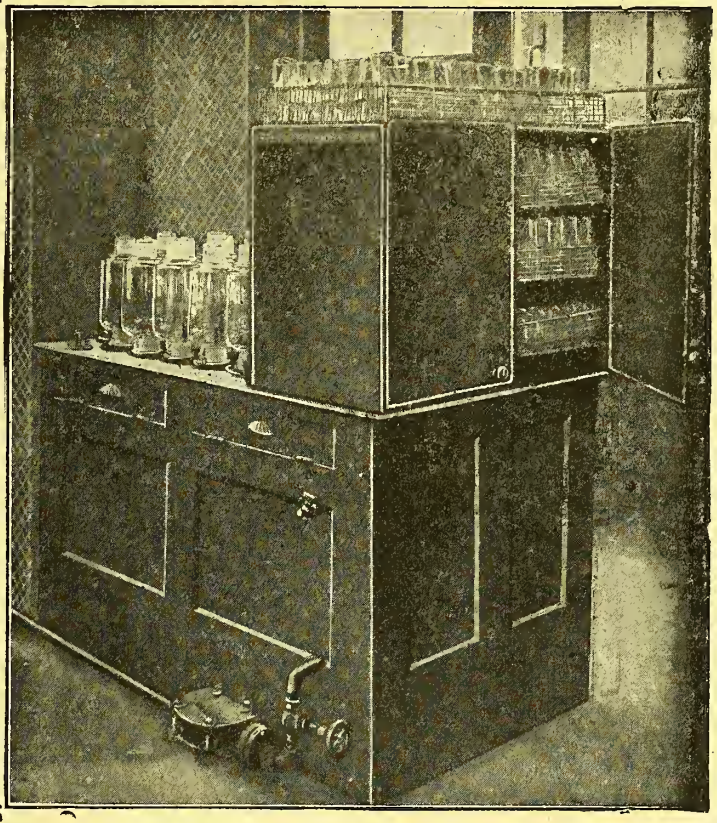
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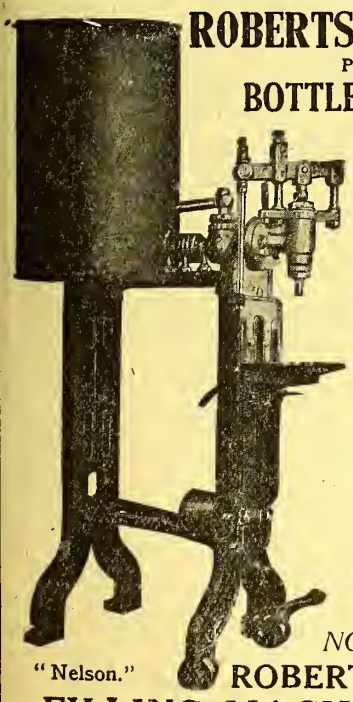
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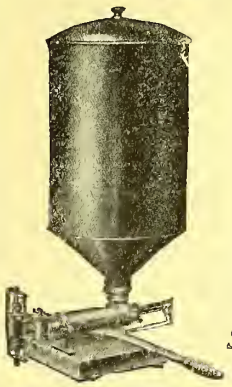


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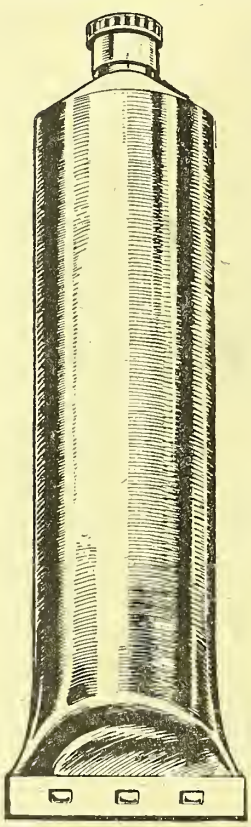
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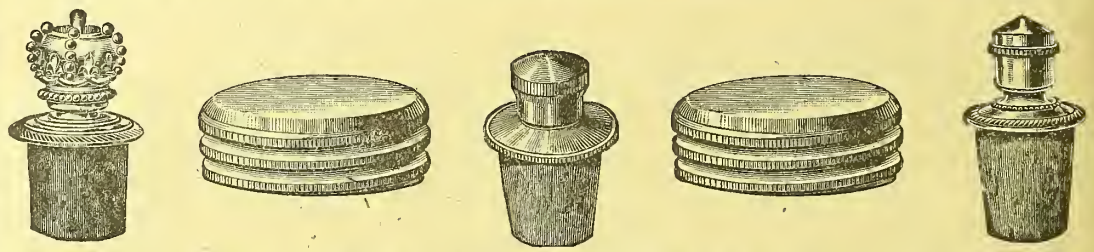
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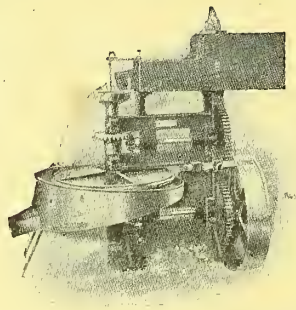
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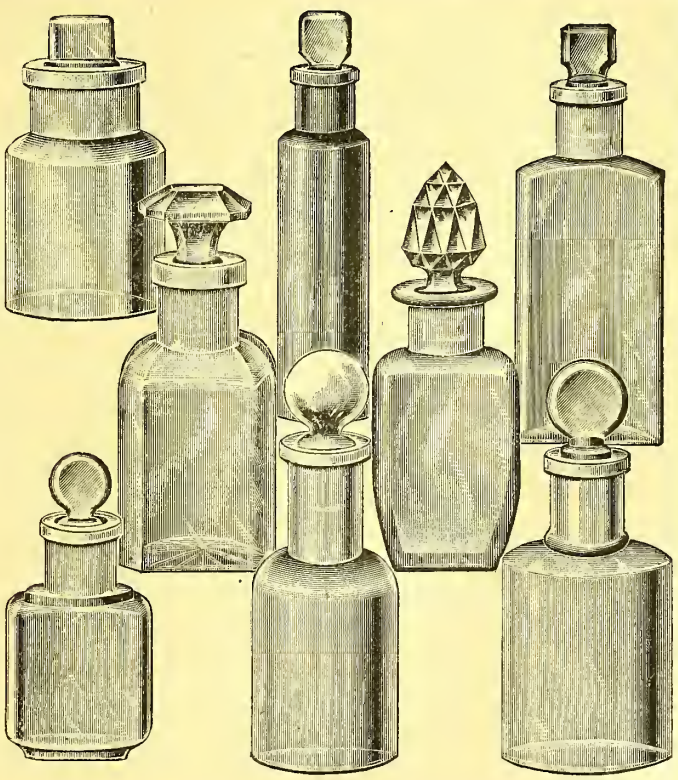
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Mr. H. J. Morgan, Chemist, Kimbolton, writes :— July 27, 1920. "People are again asking for 'Rodine' after having tried the new much-advertised so-called Rat Poisons. They say that they want 'Rodine.'

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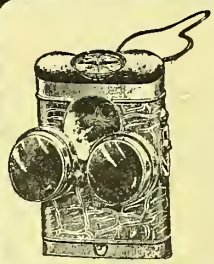
that the Rats thrive on. Some people go as far and say that the novelties in Rat Poison entice the Rats and Mice and then feed them, as they have watched them take it away, none being found dead, but apparently increase in numbers."

MUST HAVE "RODINE"
The Rapid Rat Remover

It yields nearly 100% profit.
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HARLEY, Manufacturing Chemists **PERTH, Scotland.**



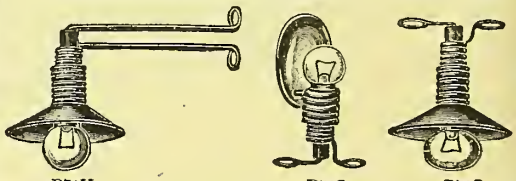


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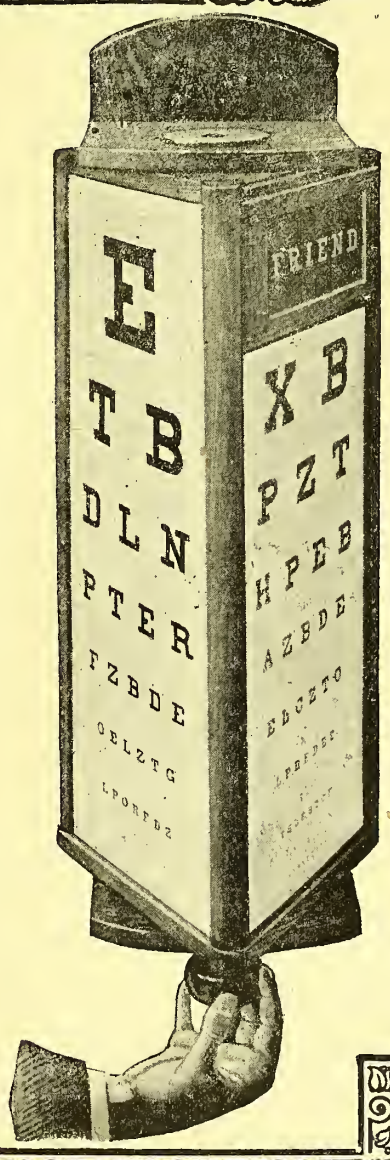
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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON, E.C.4.

NOVEMBER 13, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

HE CHEMIST AND DRUGGIST SUPPLEMENT
REVISED ADVERTISEMENT TARIFF.

sinesses Wanted and for Disposal, Premises Let, Goods and Shopfittings for Sale, and encies: 6/- for **50** words; every additional **10** words or **6d.**

UATIONS OPEN: 6/- for **40** words; every additional words or less, **6d.**

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advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph rgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C.4.

Telephone: Central 3617 (3 lines). **Telegrams:** "Chemicus, Cannon, London" (2 words).

ARLIER CLOSING FOR PRESS.

Will advertisers please note that until further notice it will be necessary that Advertisements

ended for the Supplement must ch us not later than the FIRST POST THURSDAY MORNING.

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lessrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION,

—LONDON, W. (Suburban).—Cash Retail and Photographic ness, with Rexall and Kodak agencies; returns approach 00 per annum, at good prices; double-fronted shop; estimated e of stock and fixtures, £1,000; held on lease at a moderate al; price £1,400, or near offer.

—CHELSEA.—General Retail and Dispensing Business; rns, present rate, £40 per week; *gross profit* 46%; lock-up ; moderate rental; new lease can be obtained; price £1,400; 0 cash, and balance by instalments.

—CHESHIRE.—General Retail Business, with Optical connec- ; in present hands 20 years; returns £2,500; *net profit* £750; le-fronted shop; held on lease at a rent of about £60; terms, ation of stock and fixtures, and sum for goodwill to be nged.

—SOUTH YORKSHIRE.—Neglected Business; returns last th £100; *net profit* 25%; lock-up shop, with room at back; £30 per annum; further details on application.

—WARWICKSHIRE.—Old-established Business, Wholesale and ail; returns £10,000 per annum; *gross profit about* 33⅓%; e for large increase; further details on application.

—YORKSHIRE.—Cash Retail Business; returns about £3,000, scope for great increase under energetic management; low ; new lease will be granted; terms, goodwill £200, and ation of stock and fixtures.

—HOME COUNTY.—General Retail and Dispensing Business, fly ready money; returns between £6,000 and £7,000 per um, at good prices; attractive, well-fitted shop, heavily ked; price to be arranged.

8.—EAST COAST.—Drug Store; established many years; returns £1,000, at good prices; scope for extension under a qualified man; double-fronted shop; house has 6 rooms and garden; price £900.

9.—SOUTH OF ENGLAND.—Old-established Business, mostly own Proprietaries and Prescribing; returns last year between £11,000 and £12,000, *at excellent profits*; further details on application.

10.—ESSEX (popular Watering Place).—Retail and Dispensing Business; all good middle-class trading; returns £2,500 per annum; opening for extended trade; comfortable residence; held on lease.

11.—MIDLANDS.—Large town; General Retail and Dispensing Business; established many years; returns over £60 per week; *net profit* 25%; held on lease at a rental of £80; price to be arranged.

12.—KENT.—Good-class Retail and Dispensing Business, situate in centre of good market town; returns over £50 weekly, at full prices; there is a residence, with private entrance, bathroom; valuation terms entertained.

13.—NORTH MIDLANDS.—General Retail Business; returns over £2,500; books open to investigation; double-fronted shop; moderate rental; new lease will be granted; price about £1,500.

14.—MIDLANDS.—General Retail and Dispensing Business; returns £3,500 per annum; there is comfortable residence and garden; further details on application.

VALUATIONS FOR STOCKTAKING.

ssrs. O. & Co., desire to emphasize the necessity of a periodical Statement of Account, by which means alone Profit, the lue of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

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35 Jewry Street, Fenchurch Street, E.C.3

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—BUCKS (Market Town).—Genuine Light Country Retail; Dispensing and Prescribing Business, in central position; returns exceed £2,250, increasing; large house, garden, etc.; well-stocked shop; price £1,600, or £2,700 including freehold; £600 can remain.

2.—LONDON, S.E.—Brisk Cash Retail Business; no N.H.I.; returns £2,600; good profits; low rent; valuable lease; busy market thoroughfare; heavily stocked; price £500 and valuation—in all about £1,800.

BUSINESSES WANTED.

MESSRS. BERDOE & FISH have at the present time several clients desirous of purchasing Businesses within 100 miles of London, requiring cash from £1,500 to £3,000. Also in suburban London, £1,000 to £2,000.

We can guarantee quick sales with the utmost privacy; particulars received in strictest confidence. Terms sent on application.

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ARGENTINE, BRAZIL, and URUGUAY.—Firm of Representatives, with large connection amongst Wholesale Druggists and Chemists, require sole agency of manufacturers of Drugs and Chemicals; extensive business assured. Apply P.C.B. 30/33, Office of this Paper.

AGENT, covering Lancs, Yorks, and Cheshire by own motor, calling upon Chemists, Drysalters, etc., wishes further additional Agency; established connection preferred. 33/25R, Office of this Paper.

GENERAL Sundriesman (Gloucester) desires additional Agencies; connection amongst Chemists and General Stores. Send full particulars, "Vendo" (229/8), Office of this Paper.

TO PROVINCIAL DRUGGISTS (WHOLESALE).

GENTLEMAN, engaged in Mincing Lane, is prepared to act as confidential Buyer of Drugs, Chemicals, Spices, etc., for first-class house on commission basis; 25 years' exceptional experience in Drug trade; highest references given. Write 33/24R, Office of this Paper.

SCOTLAND.—Agent, with first-class connection, Wholesale and Retail, all Scotland, Chemists, Hairdressers, Stores, etc., is open for another Agency; only first-class houses considered; showroom and office, Glasgow (Central). Apply 231/30, Office of this Paper.

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Recommended by The British Drug Houses, Ltd., Messrs. Meggeson Ltd., Messrs. Barclay & Sons, Ltd., and many other leading Wholesale Houses. Valuers to the Association of Manufacturing Chemists.

BUSINESSES FOR DISPOSAL.

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ESSEX (Coast).—Old-established Drug Store; neglected; returns £1,000 yearly; good opening for Optics, Dentistry, Photography, N.H.I.; freehold house, six apartments, garden; double-fronted shop; price £900; stock and fittings £450; would consider offer for freehold premises only, with vacant possession. Stamped envelope for reply. Apply 234/24, Office of this Paper.

LIVERPOOL.—Dispensing and Prescribing Business for Sale in densely populated working-class district; no heavy trade or N.H.I.; returns £2,500; splendid scope for increase, Optics, and Dentistry; same hands 40 years; price about £1,500; vendor, who is retiring, holds leasehold. Smith, 2 Danehurst Road, Aintree, Liverpool.

LONDON (immediate possession).—London main road Shop and Premises, which have been Chemist's Business for many years; good opening for Dentistry, Photography, and Optics; these freehold premises for Sale at moderate price; no stock or goodwill to pay for. Apply Mr. Miller, 8 Poplar Grove, Hammersmith, London.

LONDON, W.—Neglected Suburban Light Retail, with Photographics; large shop, with accommodation, and opening for Dentistry and Opties; house sub-let covers rent of whole; good lease; returns approach £2,000; capable of large increase; £1,350 cash. Apply, with references, 233/4, Office of this Paper.

SOUTH WALES COLLIERY DISTRICT.—Profitable Dispensing, Prescribing, Photographic Business; double-fronted shop; electric light; good house and garden; 14 years' lease at £52; returns £1,800; well-fitted and stocked; good opening for Optics and Dentistry. Full particulars "Sarzae" (231/11), Office of this Paper.

SURREY.—Profitable Light Retail Dispensing and Prescribing Business; turnover approaching £1,800 and increasing; no near opposition; good opening for Optics; splendid house; exceptional opportunity; price £900 for quick sale. Apply 232/1, Office of this Paper.

A THOROUGH good Business in East-End London; splendid position for a qualified Chemist; a really genuine offer to a suitable client; busy thoroughfare through to market place; only drawback unqualification for Panel; a live trade to a qualified man for Drugs and Dispensing. Apply P.C.B. 32/18, Office of this Paper.

FOR Sale, an excellent Remedy for Gout, Rheumatism, kindred diseases, a Medicine and Embrocation, having been supplied locally in Bournemouth for 8 years with great success and numerous testimonials from all classes; fully protected with trade-mark; would sell the whole rights; a great success. 16 Hawkwood Road, Boscombe.

PREMISES FOR SALE.

VACANT possession, double-fronted corner Shop; parlour, kitchen, scullery, three bedrooms; thickly populated poor locality in London; splendid position for Chemist; lease for sale cheap; 34 years unexpired; ground rent £6 6s.; rates £21; price £450. Apply 231/32, Office of this Paper.

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CARDIFF or South Wales Seaside District (near).—Established Business or premises suitable, with good living accommodation, and with garden preferred. P.C.B. 33/34, Office of this Paper.

LIVERPOOL OR DISTRICT.—Small Chemist's Business or Drug Store wanted; cash terms. "Mac," Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

BUSINESS wanted, London, West End or N.W.; established Chemist's Business required, with fair proportion of Photographic trade. Write Box 916, Sells' Advertising Offices, Fleet Street, E.C. 4.

BUSINESS wanted; not too large; good living accommodation; country preferred, but not essential. Particulars, in confidence, "G.," c/o Harris, 3 Southcote Road, Bournemouth.

CHEMIST'S Business wanted, Lancashire or Yorkshire, Liverpool or Wallasey, showing a fair return and where improvement can be made; cash transaction. "Chemist," c/o Mrs. Brunwell, 5 Taviton Street, Gordon Square, London, W. 6.

GENTLEMAN, qualified, with capital, wishes to purchase a Business, or would entertain Managership with view to succession, or partnership; splendid business man. Apply, in confidence, "A. W.," c/o 19 Edward Street, Durham.

QUALIFIED Chemist desires post in Retail business, with a view to succession or partnership. Calcutt, Chemist, Peterborough.

RETAIL Business wanted in Birmingham (or within 30 miles); cash available £700 to £1,400; living accommodation not essential; no Optics or Dentistry entertained; management with early succession or partnership will be considered. Full particulars in strict confidence to 229/7, Office of this Paper.

SMALL unopposed country Business wanted in any district; neglected not objected to; cash immediately available; bank references given. Preliminary particulars in confidence to "Chemist," 12 Bersham Road, Wrexham.

WANTED to purchase, a small Business (immediately), for cash; neglected one not objected to; living accommodation essential. Please send full particulars to "Cortex" (234/33), Office of this Paper.

FOR SALE.

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ABOUT 4-oz. Santonin for Sale; what offers? Per dram or ounce. Dr. B., Cleveland House, Brixham.

SANTONIN, 1¼-oz., 62s. 6d.; Morph. Acet., ½-oz., 8s.; Morph. Hydroch., ½-oz., 8s.; Pulv. Cambogia, 12-oz., 9s.; Podoph. Resin, 2-oz., 8s. 6d.; Tooth Brushes, celluloid, assorted, 8s. doz.; bone, 205, 9s. 6d.; 209, 10s. Griffith, Great Bridge.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BIRMINGHAM.—Unqualified Assistant wanted immediately for Light Retail, N.H.I. Dispensing, and Photographic; good Salesman and Window-dresser; comfortable hours; permanency. Please give full particulars and references in first letter, Bramleys, 87 Holyhead Road, Handsworth, Birmingham.

BRIXTON HILL, S.W. 2.—Junior (lady) Assistant, with good knowledge of Dispensing, for good-class Suburban business; and Part-time Assistant for evenings (suit student at college). Apply, stating experience and salary required, to J. B. Frank & Co., Chemists, 111 Brixton Hill, S.W. 2.

RETURNING PHOTOS, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

CROYDON District.—Qualified Managing Assistant, to take charge of middle-class Quick Retail Business; good living accommodation; must be capable all-round man. "Statim" (234/29), Office of this Paper.

LANCASHIRE.—First Counterman; unqualified; Quick Store Business; must be a man of good character; permanency. State age, whether married, salary required, and when at liberty, 234/36, Office of this Paper.

LINCOLN.—Wanted, Assistant with good knowledge of Optics. Apply, giving full particulars, experience, references, age, and salary required, to E. R. Dixon, F.S.M.C., Chemist and Optician, Lincoln.

LONDON, N.W.—Smart unqualified Assistant wanted (four kept); in- or out-door optional; good-class Dispensing business; must be experienced and reliable; comfortable berth for right man. Full particulars (photo if possible), with reference and salary, to P.C.B. 33/7, Office of this Paper.

LONDON, W.—Manager, disengaged, wanted immediately; one accustomed to management, and with West-End experience; not under 30. Reply by letter, stating salary required and experience, marking all letters "Personal," J. R. Walker, 36 New Cavendish Street, W.

LONDON, W.—Reliable Assistant required; must be a good Salesman; outdoors; no Sunday duty. Apply, giving full particulars in first instance, to 234/32, Office of this Paper.

MANCHESTER.—Wanted, Junior Assistant (outdoors) for middle-class Cash Retail. State age, height, salary required, and references (copies) to Lockwoods, Ltd., Chemists, 112 Rochdale Road, Harpurhey, Manchester.

NOTTS.—Required (immediately), unqualified Assistant for Light Retail Mixed country business and N.H.I. Dispensing; quick and reliable. Apply, stating age, experience, and salary required, to 231/8, Office of this Paper.

RHONDDA VALLEY.—Unqualified Assistant, with good Optical experience, required immediately; single man preferred. State age, experience, and salary required, "Rhondda" (234/360), Office of this Paper.

SUNDERLAND.—Qualified Male Assistant wanted at once. Apply personally or by letter, stating full particulars and salary required, Wood's Drug Store, 72 Hendon Road, Sunderland.

WARWICK.—Wanted (at once), Junior Assistant for good-class Retail and Dispensing; outdoors; easy hours. Apply, stating age, height, experience, and salary required, to Mellor & Co., Chemists, Warwick.

A JUNIOR or Improver wanted immediately; used to Photography and Counter work. Apply, with references, experience, and salary required, also photograph, if possible, to H. Lester & Son, 1 Bridge Street, Nuneaton.

A YOUNG Junior Assistant for Dispensing Counter; give full particulars of age, experience, and salary required; enclose photo. T. O. Barlow, 2 Palmerston Road, Southsea.

IMMEDIATELY, Junior Assistant for Dispensing and light Counter work; knowledge of Photography essential. State full particulars, age, and salary required, to "D." (231/6), Office of this Paper.

JUNIOR or Improver, for good-class Suburban Dispensing and Quick Retail Business. State age, height, and salary required, to A. F. Goode, Ph.C., Erdington, Birmingham.

JUNIOR Male Assistant, for good-class Light Retail and Dispensing Business; Photographic experience essential. State age, experience, salary required (outdoors), and when disengaged, Snow, 16 High Street, Marlow.

JUNIOR Assistant wanted (outdoors); one accustomed to Dispensing (good-class): applicant must be reliable and energetic, have first-class references, and be resident in London or suburbs. Apply by letter, stating age, height, experience, and salary required, to A. 1 (29/25P), Office of this Paper.

LADY Assistant (outdoors) for Light Retail and Dispensing within 40 miles of London; state age, salary required, and previous experience. Apply "X." (231/19), Office of this Paper.

QUALIFIED Manager wanted by a very old-established firm; he must have an excellent record and know his business thoroughly; whole day a week holiday; excellent prospects for a young man, whose ability will be well paid for. Apply, giving full particulars, to Wm. Fox & Sons, Ltd., 109, 111, 113 Bethnal Green Road, E. 2.

SMART Improver or Junior required, with good Retail and Photographic experience. Apply, with full particulars of age, height, experience, and salary required (outdoors), with references, to Boutalls, Ltd., 150 Southampton Row, London, W.C. 1.

WANTED (immediately), qualified lady Dispenser for part-time duty in small Hospital. Apply Secretary, Buchanan Hospital, St. Leonards-on-Sea.

WANTED, a fully-qualified Assistant Dispenser for the Victoria Hospital for Children, Tite Street, Chelsea, S.W.; must not be over 35 years of age; salary £150, rising to £175 per annum. Applications, with copies of three recent testimonials, must be sent to the Secretary on or before Monday, November 29th.

WANTED (at once), lady Dispenser for good-class private practice within 30 miles of London; experience in book-keeping essential; accommodation immediately available; state age, qualifications, experience, also salary required. Apply 224/27, Office of this Paper.

WANTED, for middle-class business in small town near Derby and Nottingham, a smart, unqualified Assistant, competent and trustworthy, with knowledge of photography; neat and quick Dispenser, good Salesman and Window-dresser. Apply, with full particulars, 229/13, Office of this Paper.

WANTED, Assistant (outdoors), with good Dispensing experience, and accustomed to good-class Light Retail Business. Apply, giving full particulars as to age, experience, and salary required, to J. H. Scott, Pharmaceutical Chemist, Ilfracombe.

WHOLESALE.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ANALYTICAL Chemist, of good experience, required at once; Pharmaceutical training of advantage. Apply, giving full particulars of training and experience, stating salary required, to "N. E.," Allen & Hanburys, Ltd., Bethnal Green, E.

DRUG and Chemical house require Traveller with sound, long-established connection among Chemists in London and suburbs; liberal commission basis. Send full particulars in confidence to P.C.B. 33/19, Office of this Paper.

LABORATORY Manager.—A large and well-known firm of Manufacturing Chemists require a widely experienced Manager (with knowledge of modern plant) for their laboratory; to a qualified man of ideas and energy, able to initiate new lines as well as to supervise the manufacture of Milled Ointments, Tinctures, and Toilet and Pharmaceutical Articles generally, an excellent post at a good salary is offered; ability to carry out the usual alkaloidal and other estimations and to control staff are, of course, necessary. Apply (in confidence), with full particulars of training and experience, to 13/23G, Office of this Paper.

LONDON Wholesale Druggists require experienced Wet and Dry Counter Hands. Write, stating age and full particulars in first instance, to A. W. W., Dakin Bros., Ltd., 82 Middlesex Street, E. 1.

MANUFACTURERS of Toilet Preparations and Packers of Drysaltery Goods required an experienced Works Manager; must be able to control male and female staff; preference given to one who will take up £1,000 in shares. Address, giving full particulars of experience and state age and salary required, to 43/210, Office of this Paper.

ONE or two Representatives required on commission for Proprietary Ointment; Cumberland, Westmorland, Northumberland, Durham, and North Riding Yorks; must have good connection with Chemists. Apply, stating full particulars, 24/38M, Office of this Paper.

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